SECOND EDITION.

MAY 1st, 1884.

WROUGHT IRON CATALOGUE

—OF—

MANLY & COOPER MANUFACTURING CO.

ENGINEERS AND MANUFACTURERS OF WROUGHT STEEL
HAND RAIL FOR BRIDGES.

ORNAMENTAL IRON WORKS,

STRUCTURAL IRON,

RAILINGS,

ELM AVENUE & FORTY-SECOND ST., PHILADELPHIA.

CARD TO CIVIL AND MECHANICAL ENGINEERS.

We will be found ready to execute orders for novel or difficult mechanical constructions, and are able to give the attention of trained engineers to the problems involved in such work. Our works are large and well fitted.

DO NOT MUTILATE CATALOGUE.

When Ordering or Soliciting Information, GIVE NUMBERS ONLY.

Photographs of these and of many other designs furnished upon application.

R. P. MANLY, Pres. and Eng'r.
F. H. TAYLOR, Sec. and Treas.
A. L. SMITH, Asst. Engineer.

CATALOGUE

OF

MANLY & COOPER MANUFACTURING CO.,

Elm Avenue and Forty-Second Street,

PHILADELPHIA, PENNA.

MANLY & COOPER MFG CO
271 BROADWAY,
NEW YORK.

TELEPHONE-684 MURRAY.

Dear Sir:—We respectfully submit to your consideration the enclosed designs of Wrought Iron Manufactured by us, which will give you a general idea of the classes of Ornamental Iron Work of which we make specialties.

We especially recommend our ***Wrought Steel Hand Rails*** (4½ and 3½ inches wide) for Bridge Railings, Cemetery Enclosures, and Stairways (see pages 1 and 11). It is very handsome and durable, and promises to supersede the Pipe or Pickets on all Railings, etc., where ornamentation or durability is desired.

Hoping that our Catalogue may prove of service to you, and that we may hear from you with orders, we are

Yours very truly,

MANLY & COOPER MF'G CO.

AVERY LIBRARY
COLUMBIA UNIVERSITY
AT 3.M315 1884

PURPOSE OF THE CATALOGUE.

We have endeavored in this catalogue to collect a quantity of suggestive material into a small space. The cuts give only the essential features of the designs, and modifications of all kinds are easily made. It will be found that railing patterns will answer for window guards or grilles, and *vice versa*. There are quantities of regular designs which lack of space prevents us from inserting; many of them have been photographed, and in the course of correspondence in regard to special orders, we will gladly send these photographs, illustrative of the work in question.

NEW WORK. SKETCHES.

In wrought iron new patterns can be executed as cheaply as old ones, and we especially invite our customers to send us suggestions and modifications as well as original sketches. In all such cases we will strive to catch the artistic spirit of the work and execute it accordingly.

GENERAL REMARKS ON IRON RAILINGS.

To make a thoroughly good job all railings must be made up especially for the place they are to occupy. All the grades and inequalities must be allowed for. As a consequence, railing cannot be carried in stock, but must be "started at the beginning" after we have full information and measurements. A long experience has convinced us that the only true way to make a railing is by "plugging." The metal of the horizontal bars is thus driven into that of the verticals, and nothing can be more secure. Such a fence, if painted occasionally, is imperishable.

No railing made up loosely so as to be adjustable to grade, or one depending for its strength on clamps or ornaments, can be serviceable.

Any work made by us from correct and sufficient data will be found to fit and can be easily and readily set.

CARE OF IRON RAILING.

The only care needed to insure our railings, and to keep them in perfect order, is to go over the line every few years and ram the earth solidly around the posts and ground bases. Frequent painting is highly desirable, and a small quantity of paint will cover a long line of railing.

STONE COPING

is an expensive luxury. We have perfected our system of ground bases to such a degree that we do not hesitate to advise planting the railing in the ground. The amount that would be paid for coping can be far better spent in securing a stronger and more ornamental railing.

CHARACTER OF ORNAMENTS.

Wherever possible, railing ornaments should be ***wrought iron*** instead of cast.

A very hasty examination will convince anyone that ornaments in either malleable or gray castings will get loose or break, and that once broken they cannot be replaced except at great expense—and nothing is so unsightly as a railing with broken pickets or displaced ornaments. We are making great advances in the substitution of forged ornaments for those of cast iron.

Besides durability, much finer and more artistic effects are secured in wrought iron.

We are constantly adding to our list of forged ornaments and use them in place of castings.

DIRECTIONS FOR ORDERING RAILING.

Draw a diagram giving the plan of the lot. Indicate the position of the gates. Begin at the *middle* of a gate and measure to the line of the property (that is, to the *outside* of the corner or end post).

Measure and state the grades accurately, giving the total fall from the high to the low points and the total distance between those points. State clearly which cast iron posts are wanted and how many. Order by the numbers only. Do not mutilate the catalogue. Appropriate gates are made for each railing, and on account of the greatly increased cost of making them, they are charged at twice the price of the fence per foot.

Directions for ordering Window Guards, see page 7. Directions for ordering cresting, see page 19.

GALVANIZING.

Almost all the work shown in this catalogue can be galvanized.

The treatment is a great preventive of rust and as a coating is excellent.

The cost of the treatment on railings depends on the weight of the work, and we are ready to quote prices on any design, including galvanizing. To make paint hold to galvanized iron it is necessary to give it one coat of red lead.

WIRE WORK.

We are prepared to quote prices on any style of wire work.

The size of the wire is determined by the Birmingham Gauge (see Gauge in our price list), and the mesh is described by the measure in inches of the distance between two parallel wires.

CEMETERY WORK.

We have shown a cut (on page 30) giving some of the favorite styles of Galvanized Pipe Railings and Fittings. We handle them constantly, but strongly recommend the use of light galvanized Wrought Iron Railings for Cemetery Enclosures.

FINALLY,

we would call attention to our large and well-fitted factory and force of experienced workmen, and would solicit trial orders, which we are confident will lead to the opening of regular trade.

PROPERTY OWNERS WILL FIND IT TO THEIR ADVANTAGE TO DEAL DIRECTLY WITH THE MANUFACTURERS.

Special Attention Given to Orders for Export.

To Engineers and Architects.

We have perfected, after years of labor and at a great cost, a **ROLLED and DRAWN STEEL HAND RAIL**, which is beyond competition.

It is finely moulded, smooth, straight, and in thirty feet lengths. Our first patented Hand Rail was ordered by Joseph M. Wilson, Esq., in 1872, for the great Cincinnati and Newport Bridge, and subsequently the same style was used by Captain Eads for the celebrated St. Louis Steel Bridge. In its **present** improved form, in **one** piece, it has been used upon **all** the bridges built in Philadelphia by our City Engineer, and on **all** erected by the **Pennsylvania Railroad**, as well as on every bridge and pier of any importance in the country. It received the highest Award of Merit, Medal, and Diploma at the Centennial Exhibition, and has no equal for strength, beauty, or durability. It has been approved and used by most of our greatest Engineers and Architects, and has given satisfaction. The Rail being rolled in long lengths enables us to cover all joints in the panels, to erect a continuous line of Railing, and also to dispense with all cast iron or intermediate posts, thereby lessening the load on the bridge and giving additional strength. We have erected five thousand feet of Railing in one stretch for the Pennsylvania (**Elevated**) Railroad in Philadelphia, and only used Newel posts at the end for a finish. Our Rail was adopted and used for the great Cleveland Viaduct; Smithfield Street Bridge, Pittsburgh; Polk Street, Centre and Chicago Avenue Viaducts, Chicago; Broadway and Blakemore Street Bridges, Boston; the **Great New York and Brookiyn Bridge**; The Coney Island, Long Branch, Rockaway, and Brighton Piers, and on the principal bridges in the cities of New York, Chicago, Boston, New Haven, and St. Louis; also on many highway bridges and buildings throughout the country.

In connection with this Hand-Rail we have manufactured complete the Railings, &c., on all the above-named bridges and piers. Our experience and complete equipment of machinery enable us to offer first-class Railing work at a very *reasonable cost*.

The Hand Rail forms the entire Top Cord when used, and the Moulded Base forms the Bottom Cord, and to these the intermediate work is easily attached.

☞ We have a large Assortment of Designs of Railings, Crestings, &c., which will be furnished upon application.

Catalogues and Photographs of Bridge Railings, with our **WROUGHT STEEL HAND RAIL**, *furnished upon application.*

PRICES OF FINISHED WORK RANGE FROM $1.00 TO $5.00 PER LINEAL FOOT.

Steel Hand Rail—Rolled in 30 ft. lengths.

MANLY & COOPER MANUFACTURING CO.'S

ORNAMENTAL IRON WORKS,

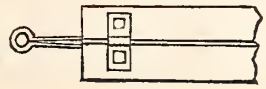
Elm Avenue and Forty-Second Street,

PHILADELPHIA.

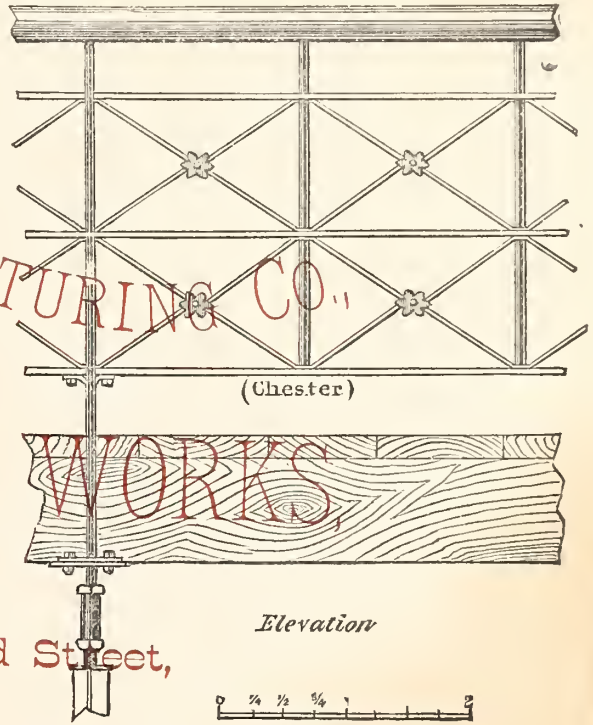
Cleveland Viaduct.

Coney Island.

Section



Plan



(Chester)

Elevation

Scale ¾ inch = 1 foot

SPIRAL STAIRS.

MADE ANY WIDTH OR RISE.

THE SIZES IN GENERAL USE ARE 4 FEET, 5 FEET, 5½ FEET, AND 6 FEET IN DIAMETER, WITH RISE OF 8 INCHES.

We also make Straight Cast and Wrought Stairs of any description.

MANLY & COOPER MANUFACTURING CO.
ORNAMENTAL IRON WORKS
Avenue and Forty-Second Street
PHILADELPHIA.

RAILINGS FOR RESIDENCES, LAWNS, ETC.

ALL RAILINGS ARE MEASURED FROM THE GROUND.

STANDARD HEIGHT, 3 FT. 3 IN.

These railings can be made any height or of any sized iron that may be required.

Designs 5 to 8:—Vertical bars are of square or round iron of any size from $\frac{3}{8}$ in. to $\frac{5}{8}$ in. The horizontals are of a size suited to the verticals, and the scrolls are of flat iron of sufficient strength. These railings are all of Wrought Iron and have forged tops and ornaments, welded and fitted so that they present a very attractive appearance and cannot be broken.

Designs 9 to 12:—Vertical and horizontal bars as above described. The cuts show Cast Iron ornaments, but we prefer in filling orders for these patterns to use Forged ornaments. We do this without extra charge, for the sole purpose of giving work of the most lasting character. We will furnish the usual Cast Iron spears and ornaments if they are preferred.

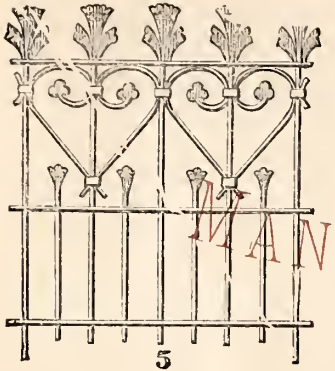
Our quotations include all Bases, Brace-Posts, Bolts, etc., carefully fitted for the purpose.

Bases are shown on pages 22 and 23.

When railing goes on wall or coping no bases are required, and a reduction on the price is allowed.

Of these designs 5, 6, 7, and 9 have proved most popular.

—SEE PRICE LIST.—



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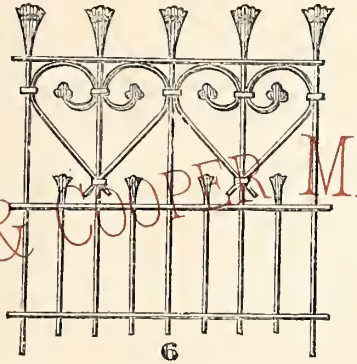

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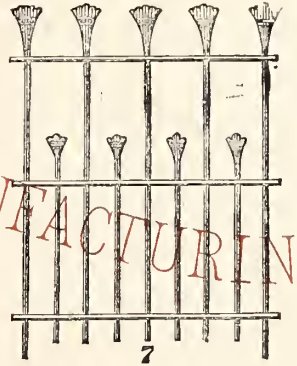

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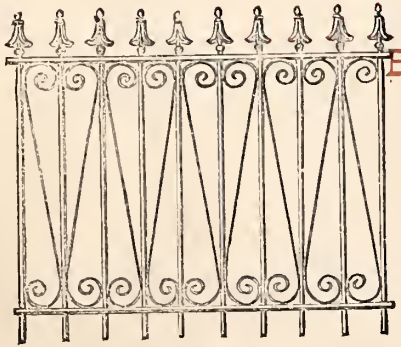
MANLY & COOPER MANUFACTURING CO.

ORNAMENTAL IRON WORKS,

Elm Avenue and Forty-Second Street,

PHILADELPHIA.



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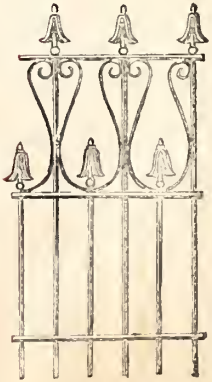


12

RAILINGS FOR RESIDENCES, LAWNS, ETC.

ALL RAILINGS ARE MEASURED FROM THE GROUND. STANDARD HEIGHT, 3 FT. 3 IN.

These railings can be made any height or of any sized iron that may be required, and will be found strong and serviceable. The vertical bars range from $\frac{1}{4}$ in. to $\frac{5}{8}$ in., and may be either round or square.

The cuts show Cast Iron ornaments, but we prefer in filling orders for these patterns to use Forged ornaments. We do this without extra charge, for the sole purpose of giving work of the most lasting character. We will furnish the usual Cast Iron spears and ornaments if they are preferred.

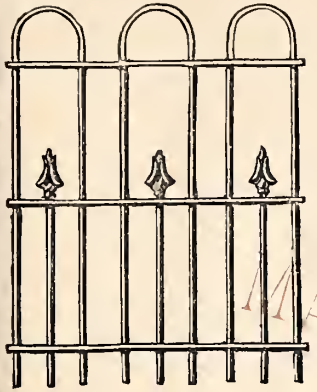
Our quotations include all Bases, Brace-Posts, etc., carefully fitted for the purpose.

Bases are shown on pages 22 and 23.

When railing goes on wall or coping no bases are required, and a reduction on the price is allowed.

Of these designs Nos. 14, 16, and 22 have proved the most popular.

—SEE PRICE LIST.—



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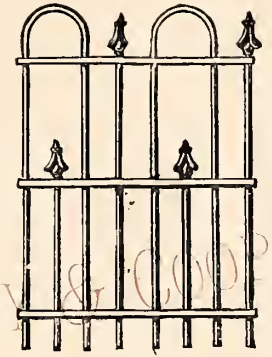

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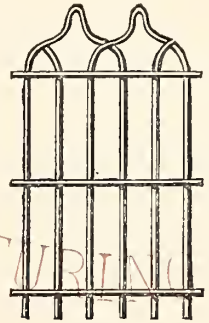

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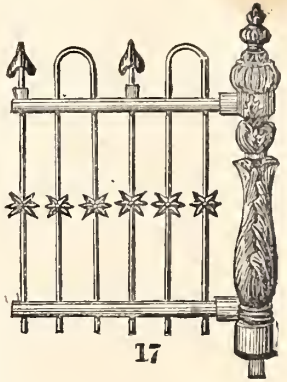
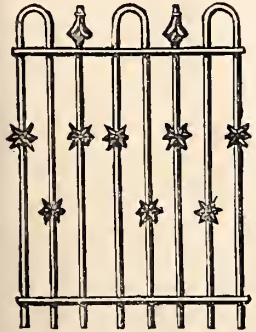


17

MANLY & COOPER MANUFACTURING CO.
ORNAMENTAL IRON WORKS,
Fifth Avenue and Forty-Second Street,
PHILADELPHIA.



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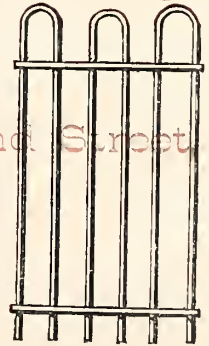

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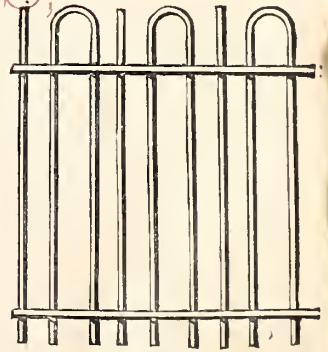


22

Ornamental House Railings.

ALL RAILINGS ARE MEASURED FROM THE GROUND. STANDARD HEIGHT, 2 FT. 9 IN.

These railings can be made any height or of any sized iron that may be required.

The designs are all Wrought Iron, the ornaments and scroll work being forged and welded. The styles are new, and adapted for the most expensive buildings.

The plates can be perforated or the designs can be raised on the surface by stamping, the latter presenting a beautiful effect.

See designs on pages 7 and 16.

No. 33

No. 34

No. 35

MANLY & COOPER MANUFACTURING CO.
ORNAMENTAL IRON WORKS
Elm Avenue and Forty-Second Street,
PHILADELPHIA.

No. 36

No. 37

No. 38

NEW DESIGNS.

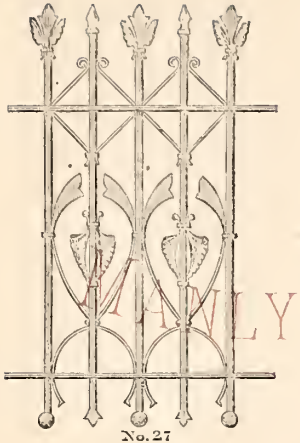
ORNAMENTAL HOUSE RAILINGS.

ALL RAILINGS ARE MEASURED FROM THE GROUND. STANDARD HEIGHT, 3 FT. 3 IN.

These railings can be made any height or of any sized iron that may be required.

The vertical bars in these designs are of square iron, and the ornaments and scrolls of forged or malleable iron. They are handsome, durable, and suitable for the most expensive residences. With some modifications they can be used for stair railings and step panels (see page 10).

They are also easily adapted for fine window guards.



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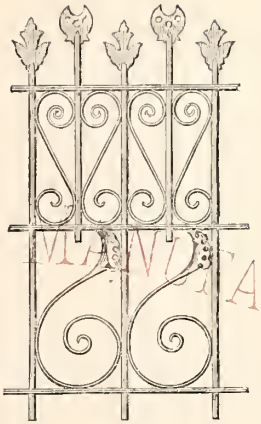

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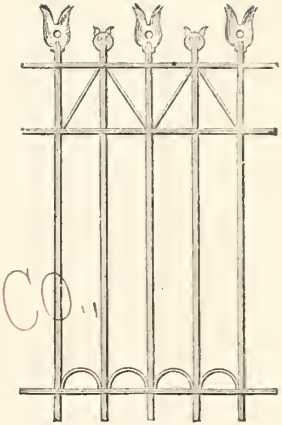
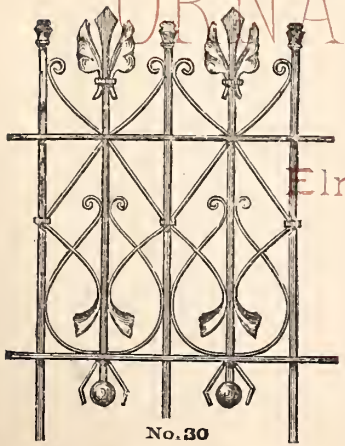


No. 29

MANLY & COOPER MANUFACTURING CO.
ORNAMENTAL IRON WORKS,
Elm Avenue and Forty-Second Street,
PHILADELPHIA



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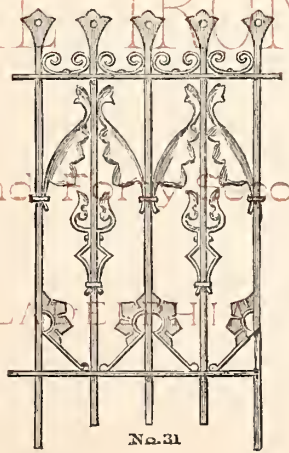

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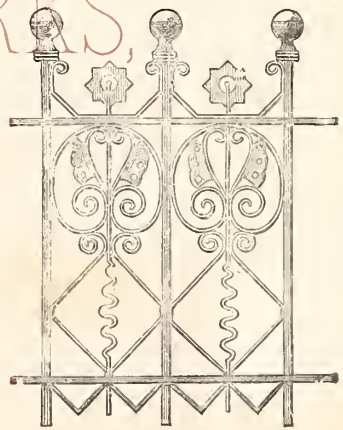


No. 32.

Ornamental House Railings.

ALL RAILINGS ARE MEASURED FROM THE GROUND. STANDARD HEIGHT, 3 FT.

These railings can be made any height or of any sized iron that may be required.

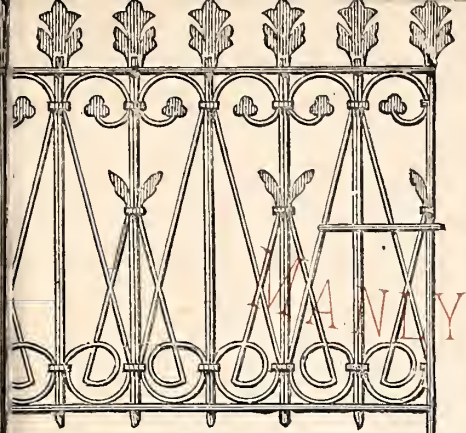
Designs 39, 40, 41:—Are all Wrought Iron with forged tops and ornaments, scrolls halved or welded. They are very rich in appearance, and very strong.

Design 42:—Is Wrought Iron throughout, except the ornaments, which are malleable. (See designs on pages 5 and 16.)

WINDOW GUARDS

can be made of any size. When ordering give accurate measurements of opening, and state whether the guards are to swing or be stationery, and whether they are to be set in stone or wood.

Designs 4 and 6 are made up with frames of Wrought Iron and have Cast Iron ornaments. They can be made any size and weight desired. (For other designs see pages 6, 8, and 9.)



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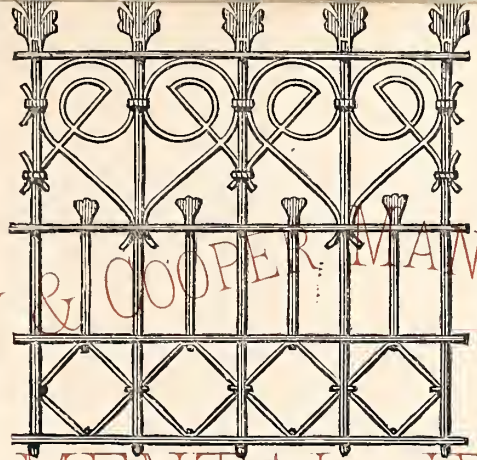

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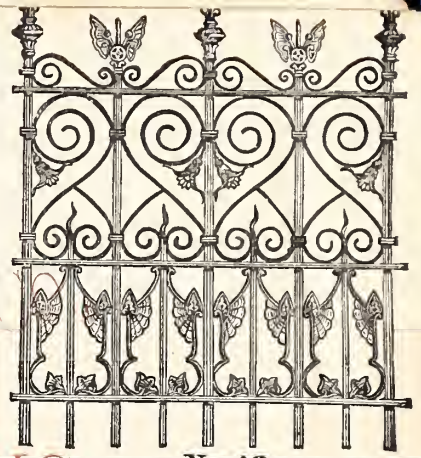
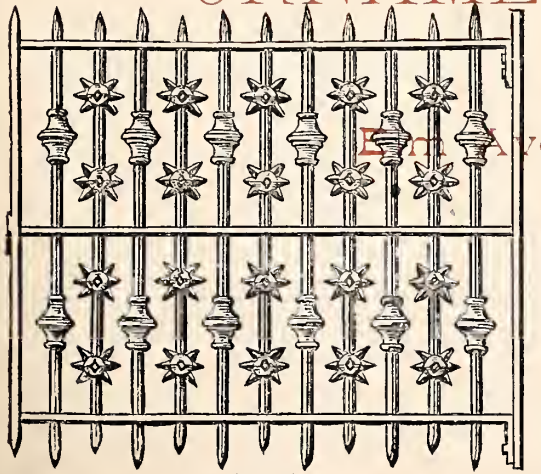
No. 41



No. 42

HANNY R. COOPER MANUFACTURING CO.
ORNAMENTAL IRON WORKS,
Erie Avenue and Forty-Second Street



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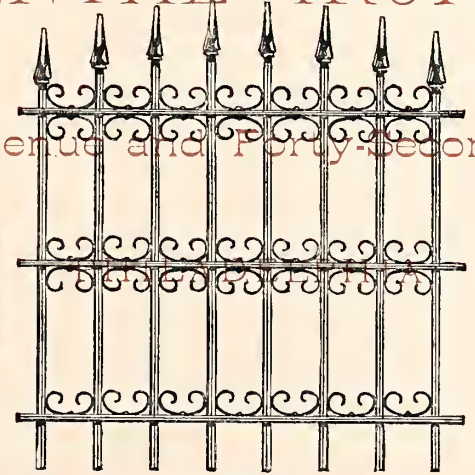

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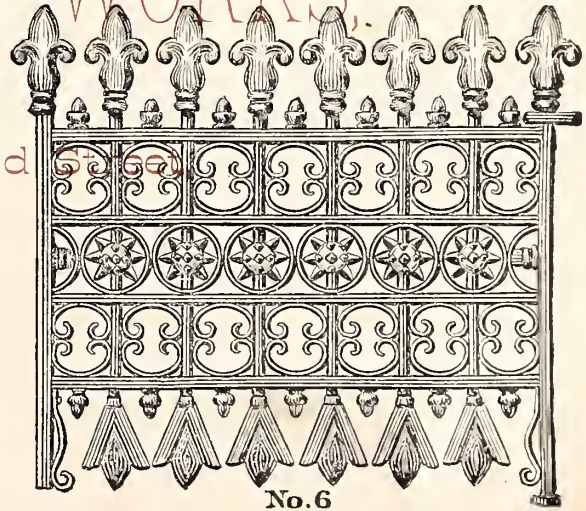


No. 6

WROUGHT IRON TREE GUARDS.

CHEAPER THAN WOOD.

THE STANDARD SIZE IS 14 INCHES IN DIAMETER AND 6 FEET HIGH.

As constructed, they will stand plumb, without damaging the roots of the trees by prongs or bases. They are so made as to show the edge of the iron and not to obstruct the view. They are highly ornamental and will outlast a dozen wooden boxes. These guards are carried in stock at all times and can be safely shipped any distance. (See new design on page 9.)

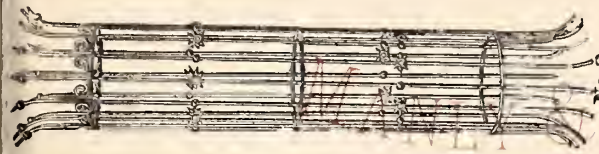
WINDOW GUARDS.

Design No. 1.—All Wrought Iron, forged, welded, etc.

" " 2.—Frame of Wrought Iron. Ornaments, Cast Iron.

" " 3.—All Wrought Iron. This guard is particularly strong and especially suitable for exposed situations. The diagonals can be spaced any distance.

For other designs, see pages 6, 7, and 9.



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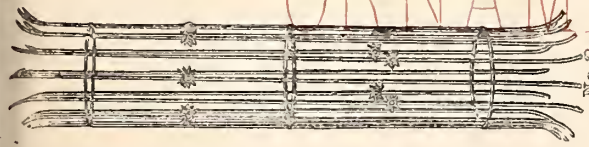
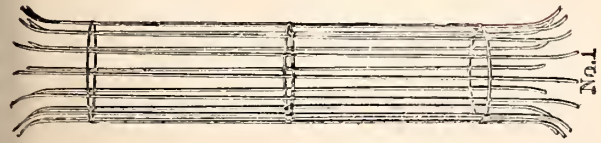


No. 2



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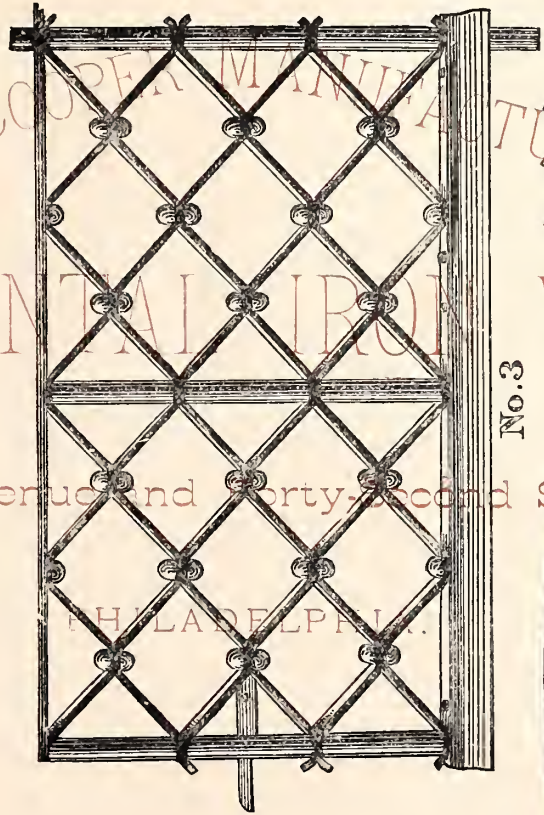

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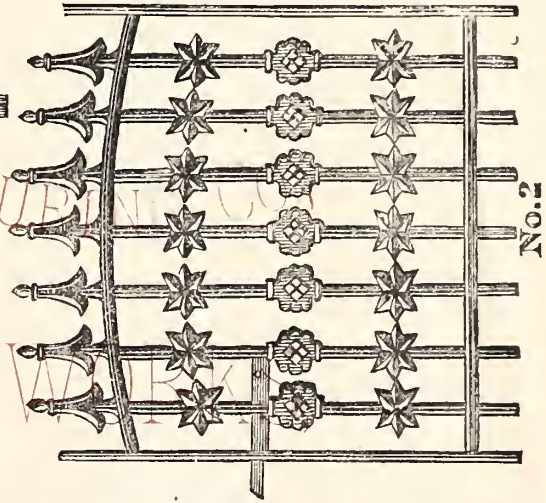

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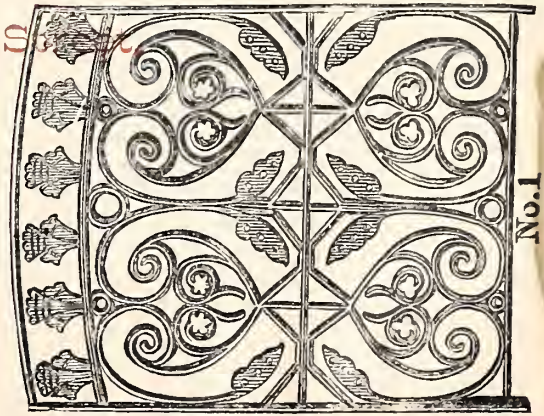


No. 1

WATER COOLER MANUFACTURING CO.
ORNAMENTAL IRON WORK
Elm Avenue and Forty-Second Street
PHILADELPHIA

124. STRONG WROUGHT IRON BRACKET.

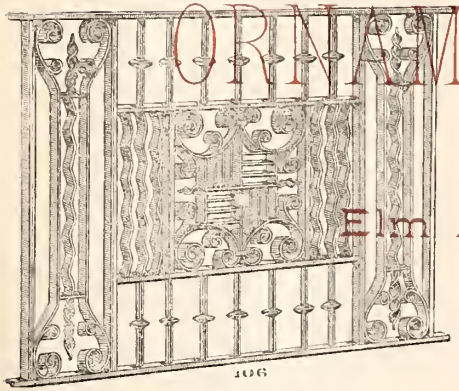
Brackets of any weight, and adjusted or modified to suit any conditions, can be promptly supplied.

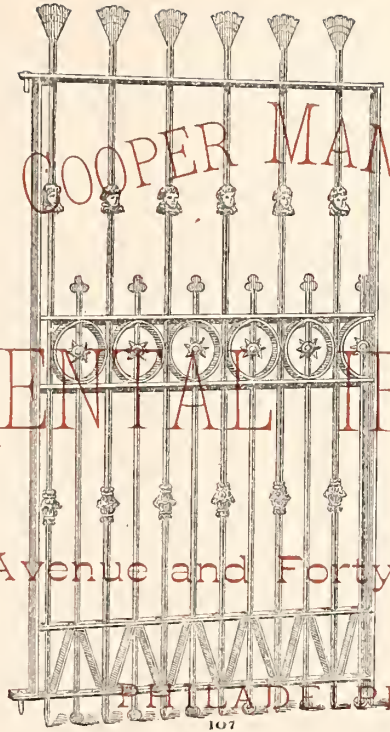
106. ALL WROUGHT IRON GUARD.

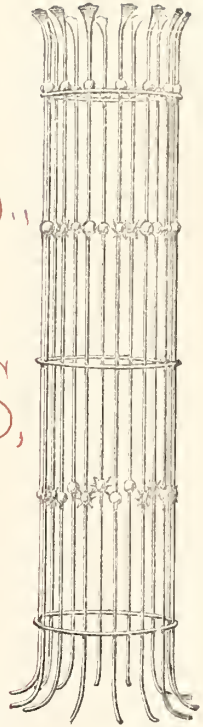
107. VERY ORNAMENTAL AND STRONG WROUGHT IRON RAILING OR GUARD.

103, 104, 105. NEW DESIGNS OF WROUGHT IRON TREE BOXES.

(SEE PAGE 8.)







MANLY & COOPER MANUFACTURING CO.,
ORNAMENTAL IRON WORKS,
Elm Avenue and Forty-Second Street,
PHILADELPHIA.

WROUGHT IRON STAIR RAILINGS.

Design No. 1.—All Wrought Iron with patent Hand Rail, 4½ inches wide (see page 1); this railing is very ornamental.

" No. 2.—All Wrought Iron, with a rolled Channel Hand Rail.

" No. 3.—This railing is constructed of ¾-inch SQUARE Vertical and Horizontal bars, with malleable castings, and capped with our patent Hand Rail (see page 1); the design is NEW, and is very strong and ornamental. Suitable for Public Buildings, Hotels, etc.

" No. 4 —All Wrought Iron, with a rolled Channel Hand Rail.

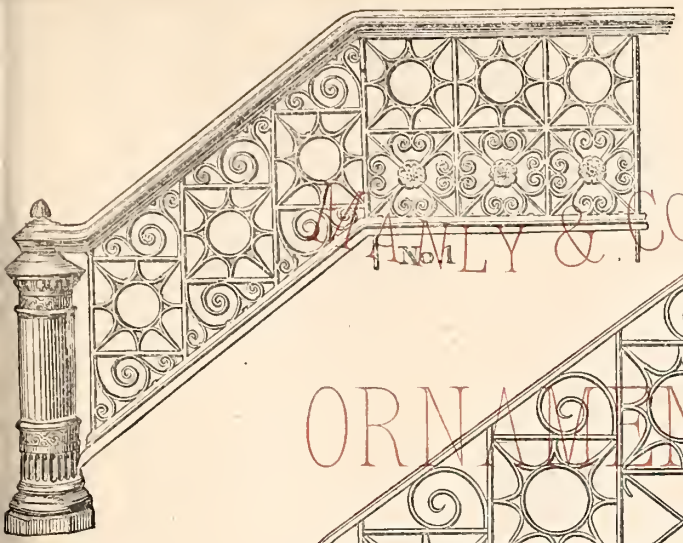
See also pages 5 and 11.

When ordering Step railings, give size of Tread and Riser, and width of platform, facilities for fastening, etc. etc. Other designs, with prices, furnished upon application.

No. 1.—Newel Post, Cast Iron, 12 inches diameter.

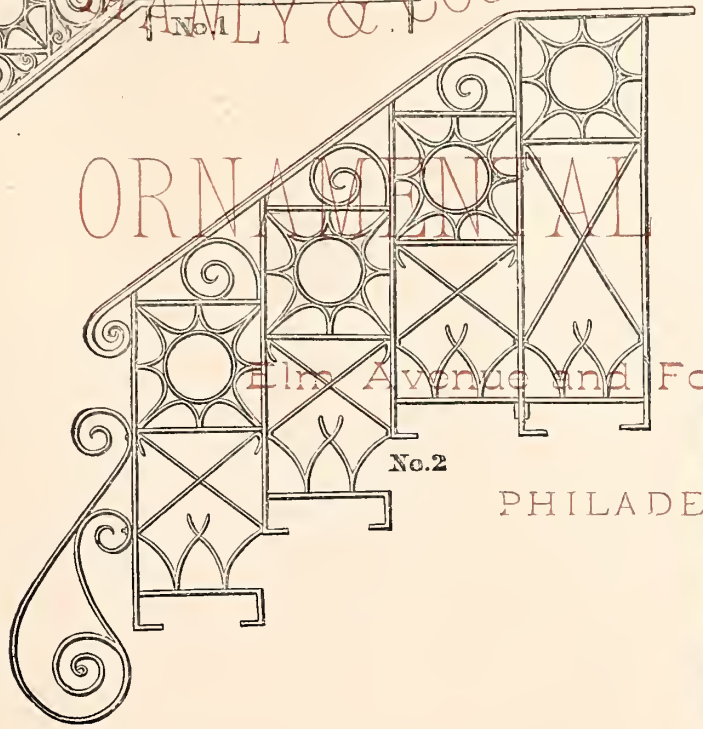
No. 3.— " Wrought Iron, 8 inches square.

MANLY & COOPER MANUFACTURING CO.
ORNAMENTAL IRON WORKS,
Elm Avenue and Forty-Second Street,
PHILADELPHIA



No. 1

No. 4



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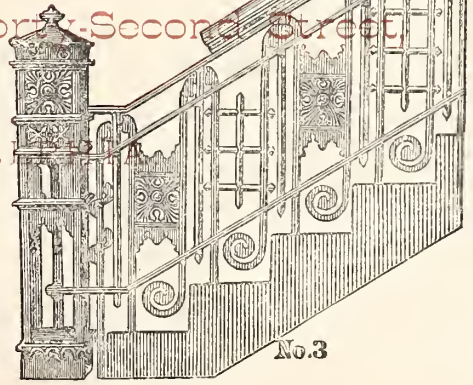


No. 3

138. CAST IRON POST, 6 inches diameter. Can be cast any length.

The cast post with 143 is No. 16 on page 13.

139, 140, 141. New designs of all WROUGHT IRON RAILINGS.

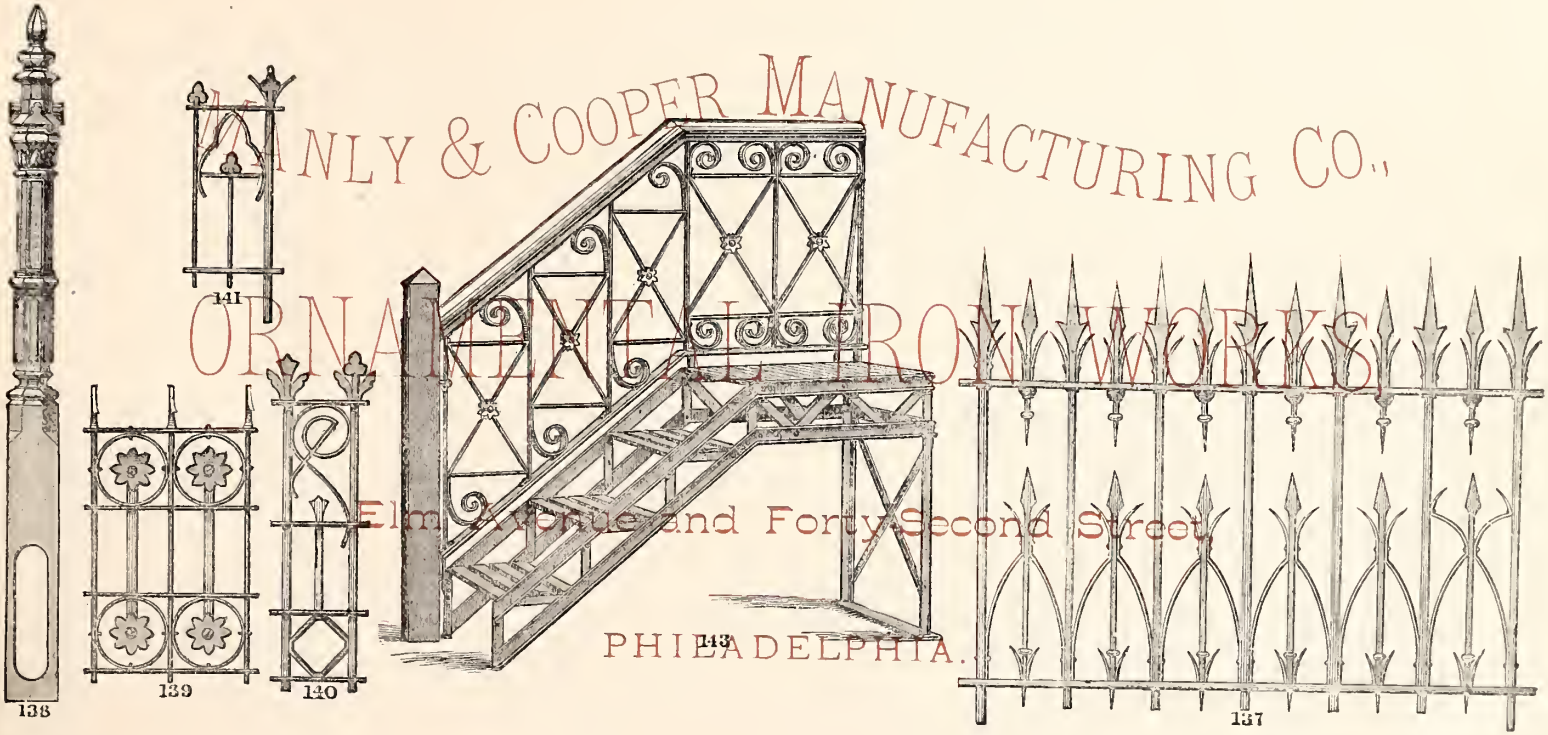
137. Is a very heavy railing, handsomely forged, and can be seen on the stone coping around the German Hospital, opposite Girard College, in this city.

143. TRUSSED STAIRS. Constructed of steel channels and angles. The railing has forged ornaments and is capped with our patent wrought drawn steel Hand Rail.

This construction is far preferable to Cast Iron, being lighter and stronger, and not subject to damage in frosty weather as Cast Iron is.

The cost is about the same as Cast Iron steps of equal size.

MANLY & COOPER MANUFACTURING CO.,
ORNAMENTAL IRON WORKS,
Elm Avenue and Forty-Second Street,
PHILADELPHIA.



NOS. 64, 63. CAST IRON POSTS, 5 INCHES DIAMETER.

They can be made any length, either to stand on coping or to go in the ground. They are the most popular Post Pattern we have.

NOS. 66, 112, AND 113. FRONT DOOR GRILLES.

Can be made any size. See page 20.

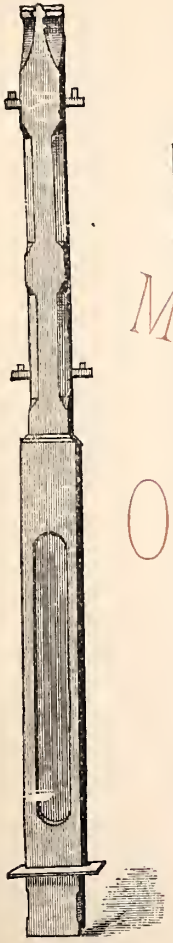
NO. 67. WROUGHT IRON CROSS.

Constructed of Channels, with forged ornaments.

NO. 111. WROUGHT IRON SCROLL CRESTING.

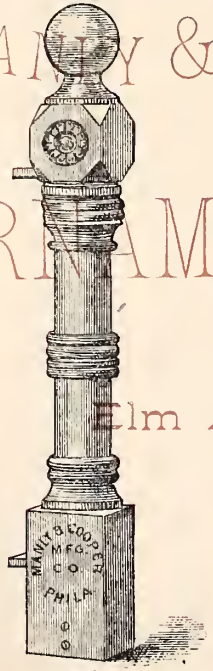
Very ornamental, strong, and cheap. Can be made any height.

—SEE PRICE LIST.—



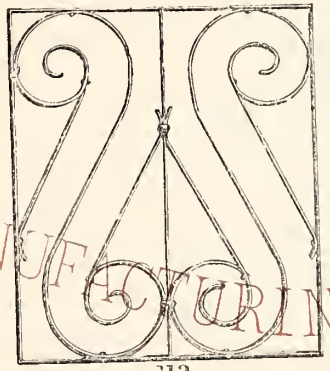
64

66



63

67



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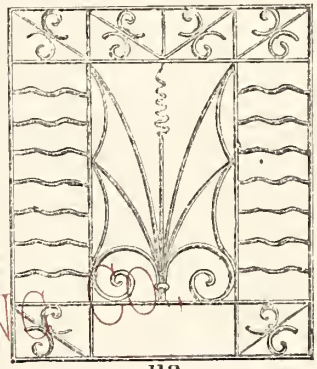

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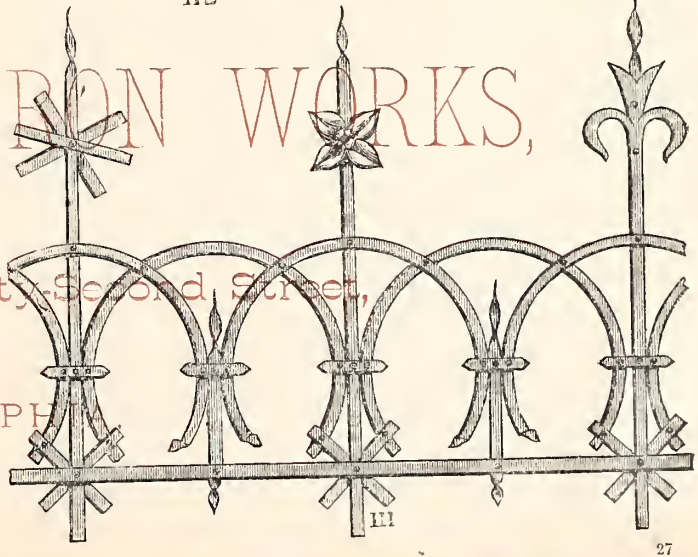


111

MANLY & COOPER MANUFACTURING CO.
ORNAMENTAL IRON WORKS,
Elm Avenue and Forty-Second Street,
PHILADELPHIA.

CAST IRON POSTS.

No.	1.—	Diameter,	6	inches.	No.	8.—	Diameter, 5 inches.
"	2.—	"	6	"	"	11.—	" 4 "
"	3.—	"	6	"	"	12.—	" 4 "
"	4.—	"	4	"	"	13.—	" 5 "
"	5.—	"	6	"	"	14.—	" 4 "
"	6.—	"	7	"	"	16.—	" 3 "

Any of these Posts can be cast any length desired.

For new Post Patterns see:

No.	1.	(Stair),	12	inch round,	on page	10.
"	3,	Wrought,	8	" square,	"	10.
"	3,	"	8	" "	"	14.
"	138,	"	6	"	"	11.
"	64,	"	5	"	"	12.
"	63,	"	5	"	"	12.
"	25,	"	5	"	"	24.

SEE PRICE LIST.

MANLY & COOPER MANUFACTURING CO.,
ORNAMENTAL IRON WORKS,
Elm Avenue and Forty-Second Street,
PHILADELPHIA.
1
2
3
4
5
6
8
11
12
13
14
16

CARRIAGE GATES.

OPENING. 10 FEET TO 14 FEET.

These Gates can be made any height or width that may be desired.

Design 1. All Wrought Iron; Forged and Halved; very handsome and strong. The cut shows gate 10 feet wide x 7 feet high at centre.

Design 2. Wrought Iron, with strong Cast Iron Ornaments. The cut shows gate 10 feet wide x 7 feet high at centre.

" 3. All Wrought Iron, with Forged Pickets; perforated or stamped plate iron at bottom; Vertical bars, square iron, 10 feet wide.

Design 4. Frames of Pipe; diagonals, flat iron; Vertical bars, O Iron. This cut shows gate 10 feet wide x 6 feet high at centre.

Other designs, with prices, furnished.

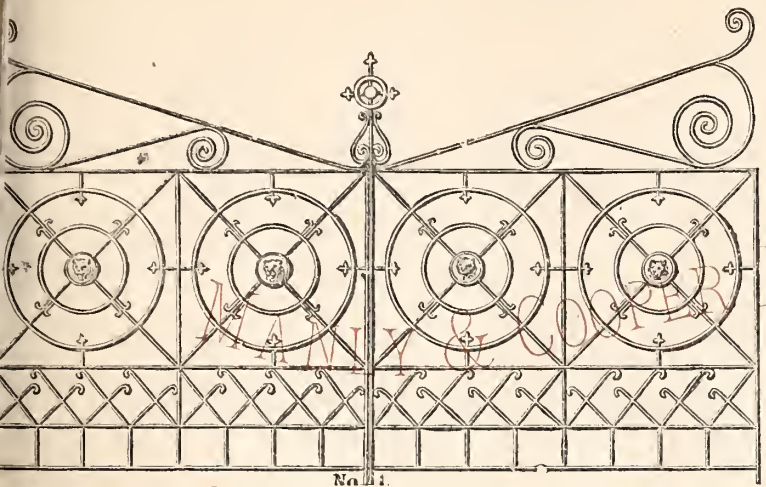
POSTS No. 2 ARE STONE.

Posts No. 3 are Cast Iron, 8 inches square.

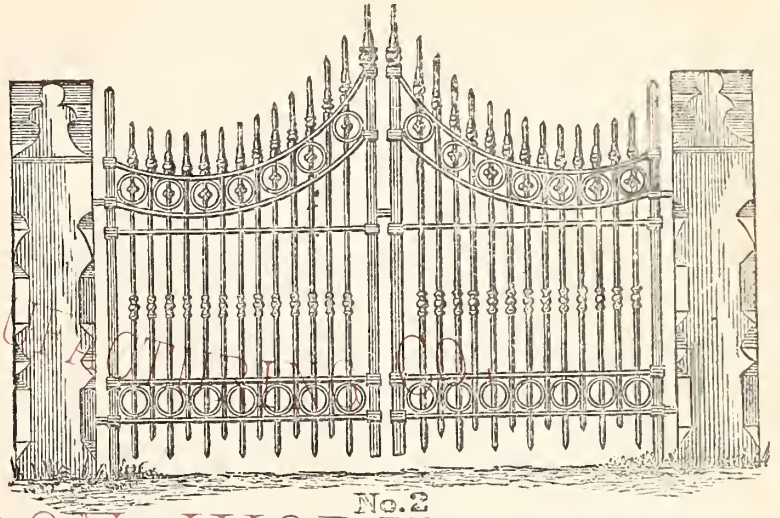
For the same patterns 5 inches square, see No. 25 on page 24.

See pages 15 and 16.

SEE PRICE LIST.

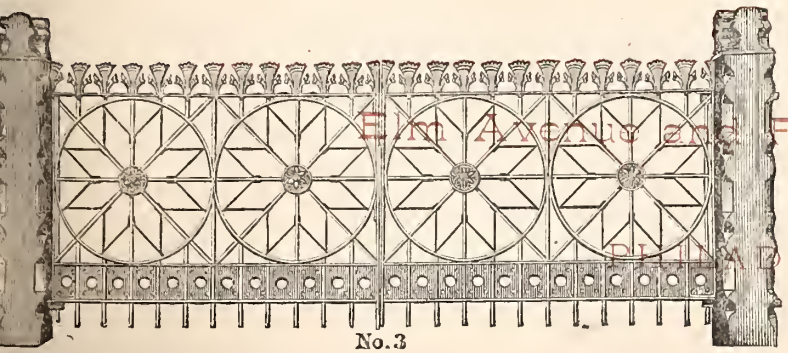


No. 1.



No. 2.

MANNY & COOPER MANUFACTURING CO.
ORNAMENTAL IRON WORKS,
Elm Avenue and Forty-Second Street,
PHILADELPHIA.



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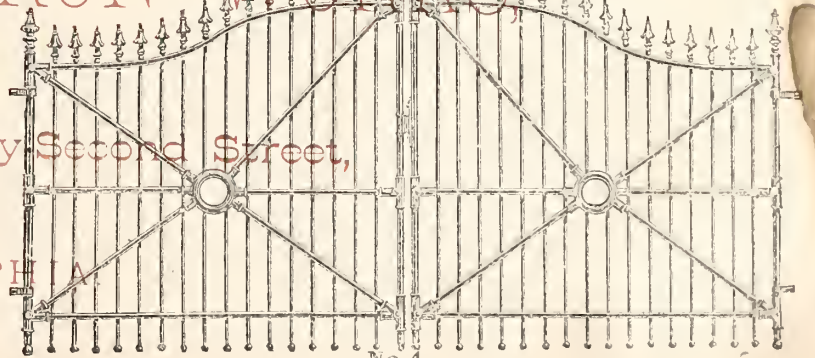


No. 4.

CARRIAGE GATES

OF ANY SIZE OR WEIGHT.

No. 8.—All Wrought Iron; vertical bars, round; with Pickets forged and brazed. The cut shows gate 10 feet openings x 6 feet high at centre. (See pages 14 and 16.)

ORNAMENTAL CAST AND WROUGHT IRON **RING RAILING** FOR A WALL.

CRESTING, ALL WROUGHT IRON,

ANY HEIGHT OR WEIGHT.

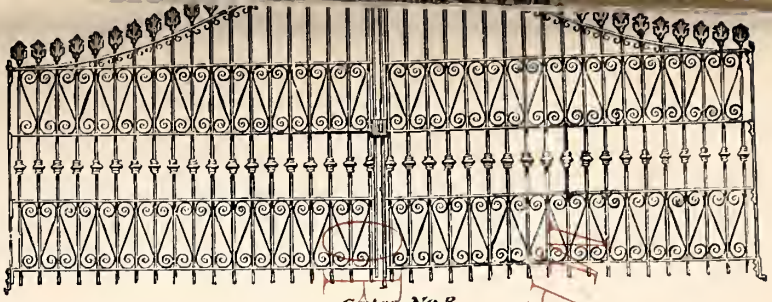
See No. 111, page 12.

ALLEY GATES

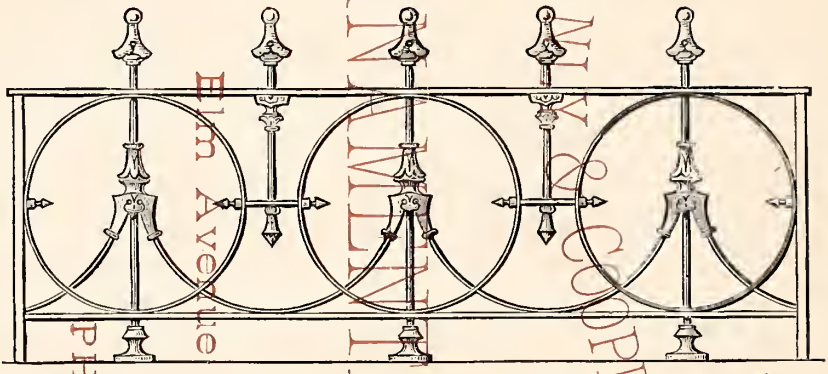
OF WROUGHT AND CAST IRON COMBINED.

Standard opening, 8 feet wide x 7 feet high.

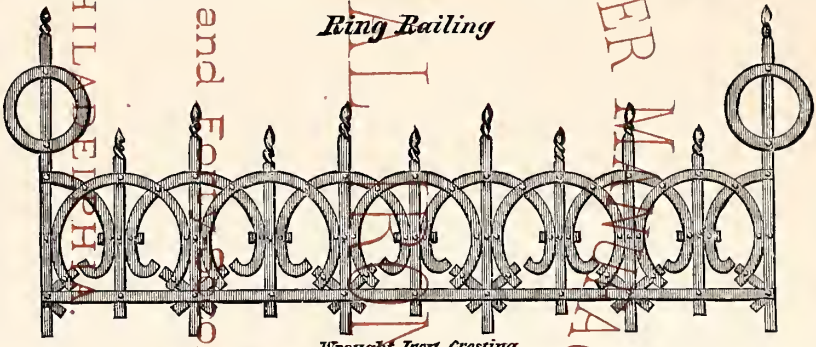
Designs and prices of Alley Gates of ALL Wrought Iron will be furnished upon request.



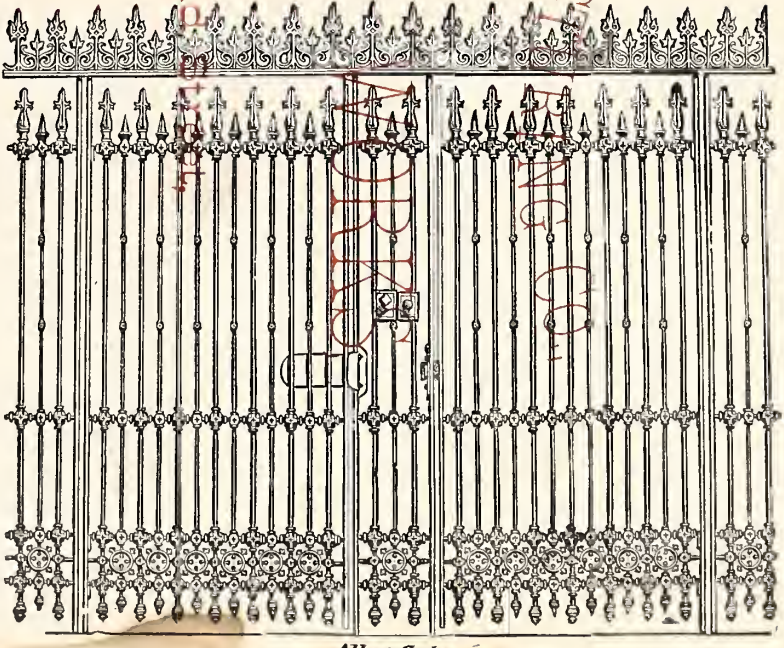
Gates No.8



Ring Railing



Wrought Iron Cresting.



Alley Gates

ADAMS, MAY & COOPER MANUFACTURING CO.
Elm Avenue and Fox Chase Turnpike
PHILADELPHIA.

ORNAMENTAL ENTRANCE GATES FOR RESIDENCES.

STANDARD OPENING, 6 FEET.

These Gates can be made any height or width that may be desired.

No. 5.—All Wrought and Forged work. Very strong and handsome.

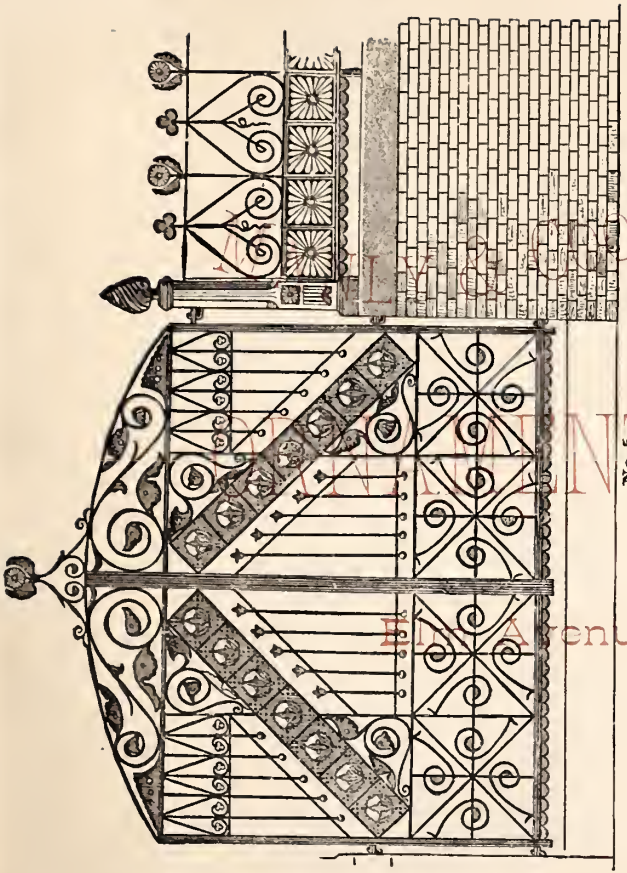
No. 6.—All Wrought Iron.

SINGLE CARRIAGE GATE.

No. 7.—Opening, 10 feet; frame work, pipe; diagonals, flat iron; Wrought Iron ornaments. This gate is remarkably strong, and for a cheap one has no equal; it finds a ready sale, and has in every instance given especial satisfaction.

No. 7.—Post same as No. 3, on page 14.

(See pages 14 and 15.)



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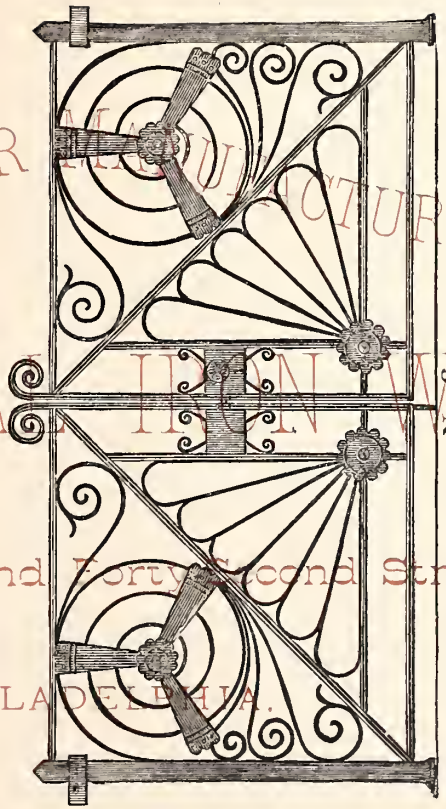

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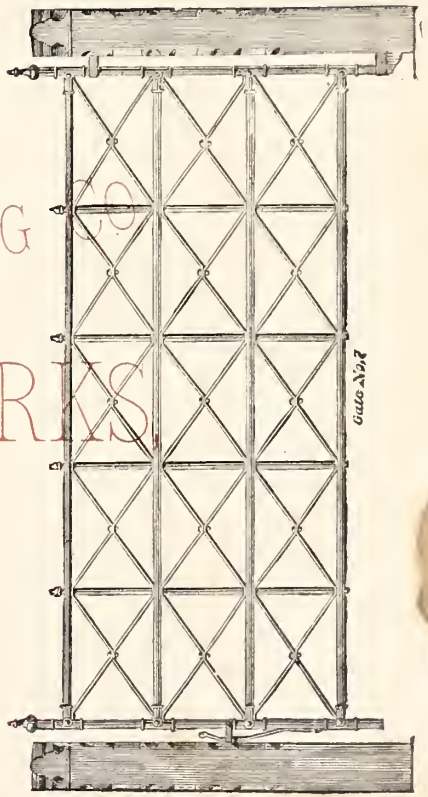


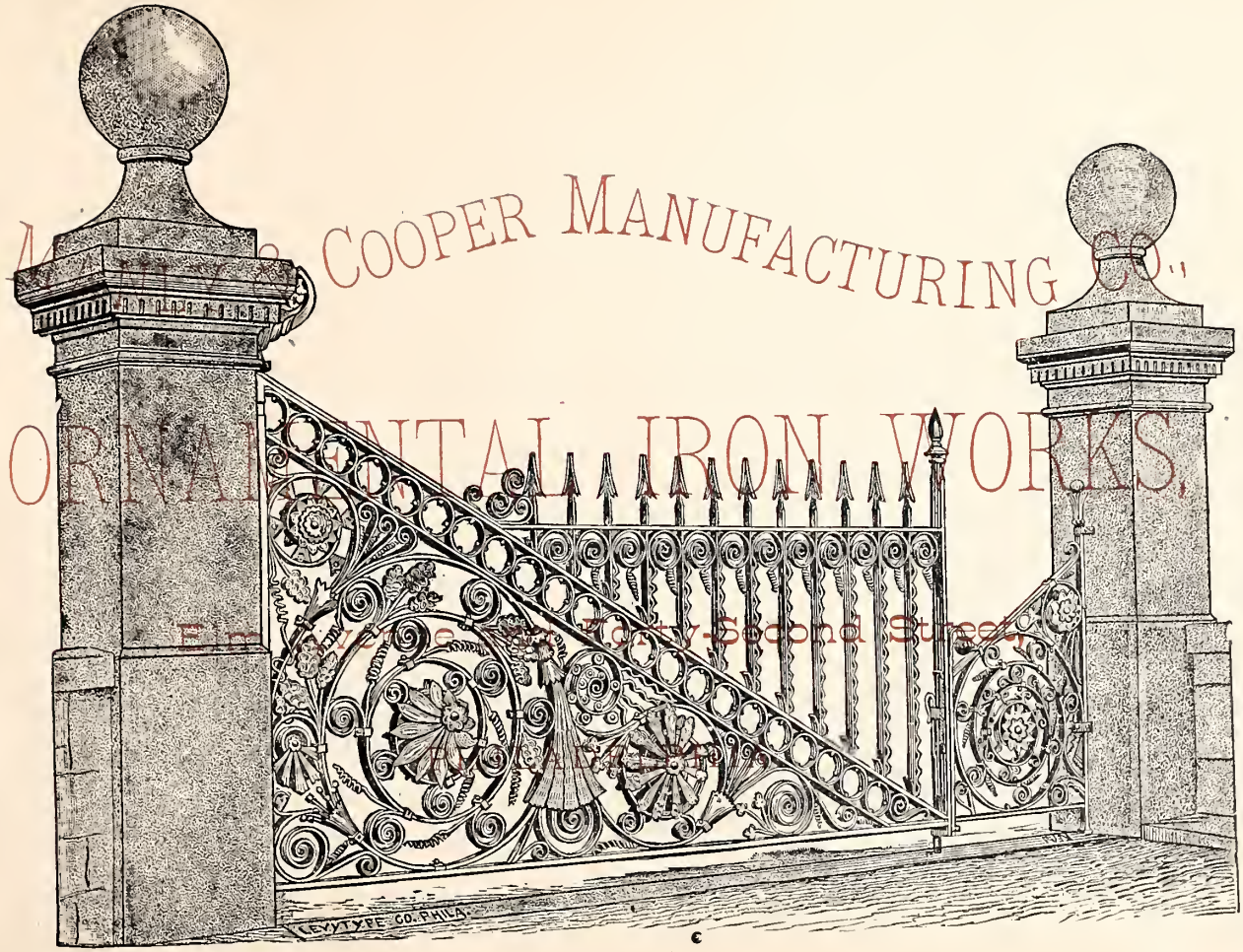
WORKS.
ORNAMENTAL IRON WORKS.
Fifth Avenue and Forty-Second Street,
PHILADELPHIA.

THESE GATES AS SHOWN ARE

ALL WROUGHT IRON FORGED AND PLANED WORK.

We will furnish new designs of Gates, upon receiving information as to the class of work required. Give full particulars and state about how expensive a gate is wanted.

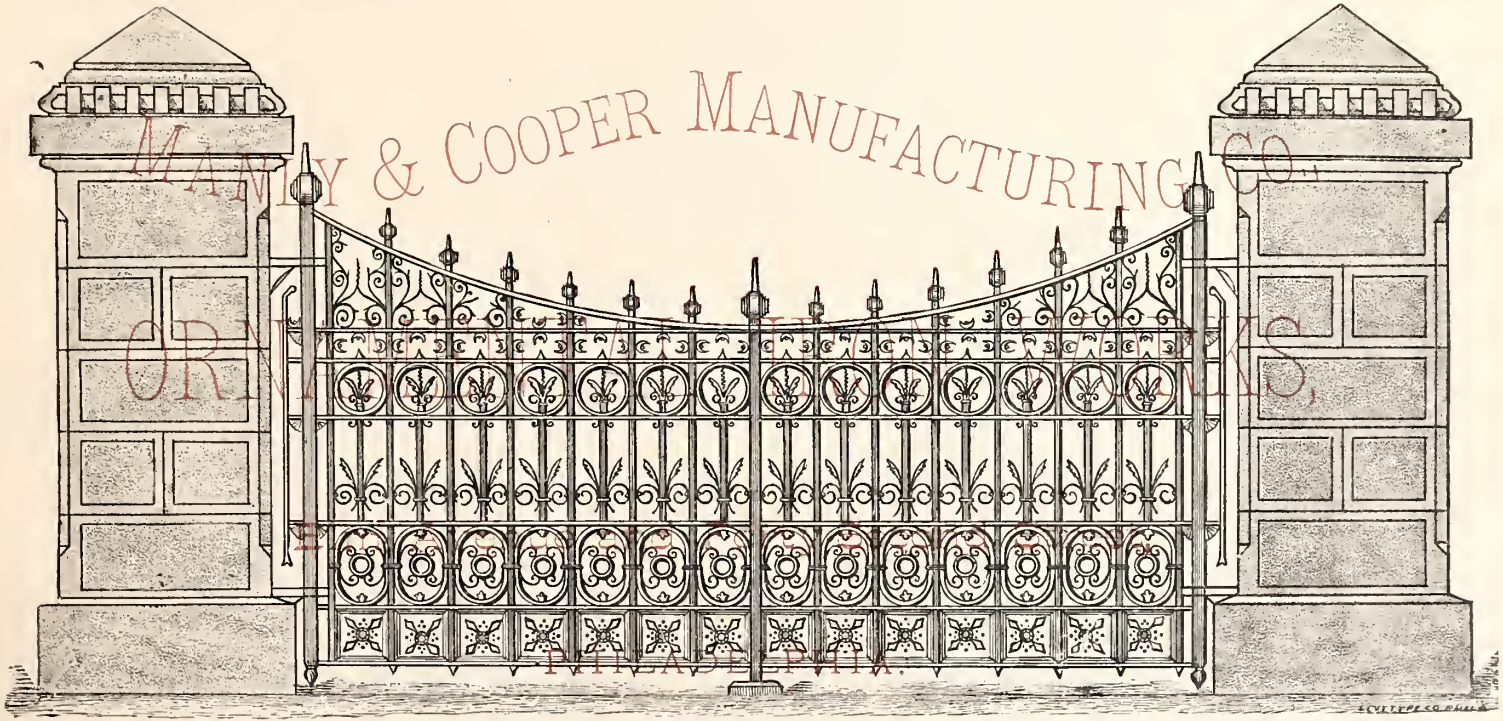
M. J. & W. Cooper Manufacturing Co.,
Ornamental Iron Works,
Forty-Second Street



ORNAMENTAL CARRIAGE GATE.

We especially solicit inquiries for work of this character.

ALL WROUGHT IRON.



MANLY & COOPER MANUFACTURING CO.
ORNAMENTAL IRON WORK
PHILADELPHIA.

146

Cast Iron Crestings and Finials.

These designs, of the heights named, are carefully fitted and boxed for shipment. Send memorandum of lengths, and give diagram and section of roof or porch, etc.

Suitable Finials for these Crestings kept in stock.

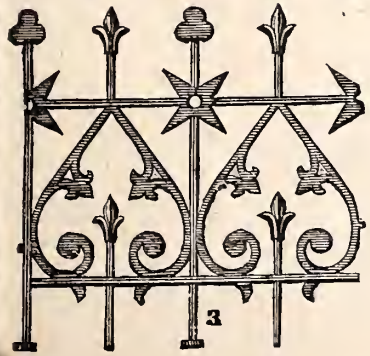
No. 1.	Height,	1	foot	9	inches.	
" 2.	"	2	"	1	"	
" 3.	"	2	"	0	"	
" 4.	"	1	"	6	"	
" 5.	"	2	"	6	"	
" 6.	"	1	"	1	"	
" 7.	"	0	"	10½	"	
" 8.	"	2	"	0	"	
" 9.	"	1	"	6	"	
" 10.	"	1	"	6	"	
" 11.	"	1	"	7½	"	

We strongly recommend the use of **Wrought Iron Crestings** instead of Cast Iron, and have inserted designs of them on pages 12 and 15.

MANLY ORNAMENTAL IRON MANUFACTURING CO.
ORNAMENTAL IRON WORKS
and Forty-Second Street,
PHILADELPHIA

1

2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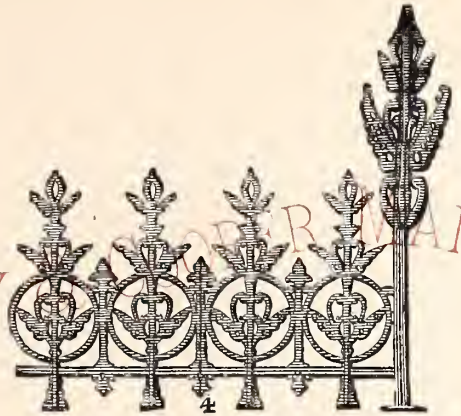
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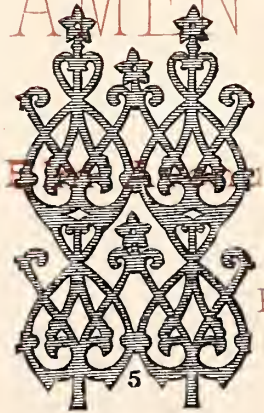
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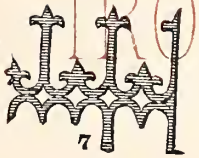
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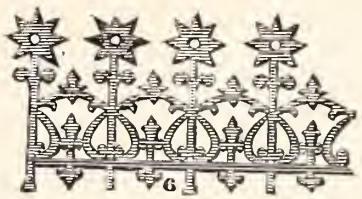
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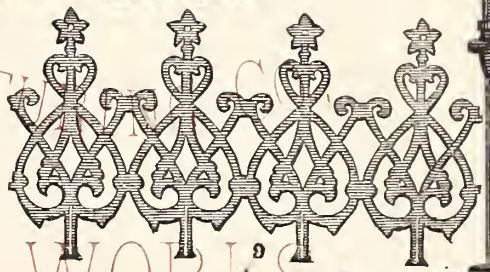
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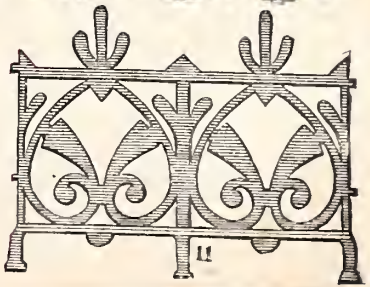
11

WROUGHT IRON GRILLES AND GUARDS.

NEW DESIGNS CONSTANTLY BEING EXECUTED.

(See page 12.)

No. 117.—Wrought Iron FINIAL and Weather Vane.

No. 128.— " wall anchor of ornamental design.

MANLY & SNYDER MANUFACTURING CO.
ORNAMENTAL IRON WORKS,
and Forty-Second Street,
PHILADELPHIA.

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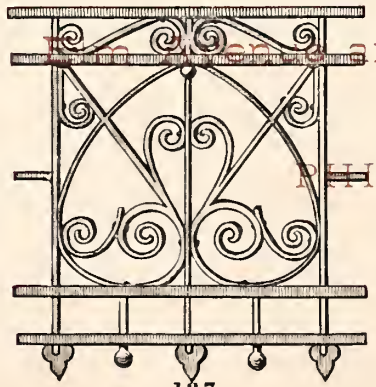
128



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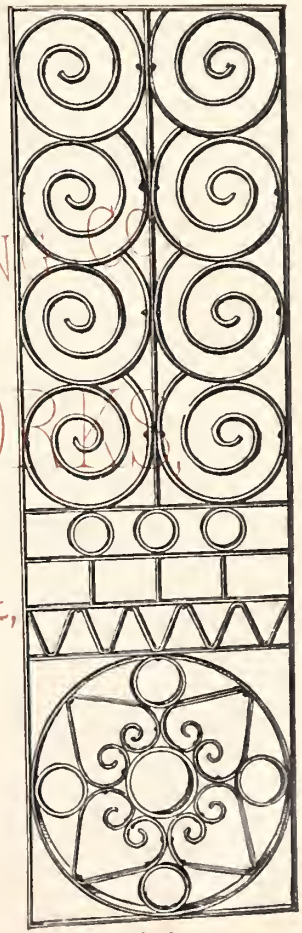
118

117



114

TWISTED RAILING.

No. 120.—Shows three styles of railing, having square verticals placed diagonally. Standard height, 3 feet 6 inches from the ground.

This railing can be made any height, and of any length of twist.

1st.—Plain rod with pointed tops.

2d.—Twisted rod with scrolled tops.

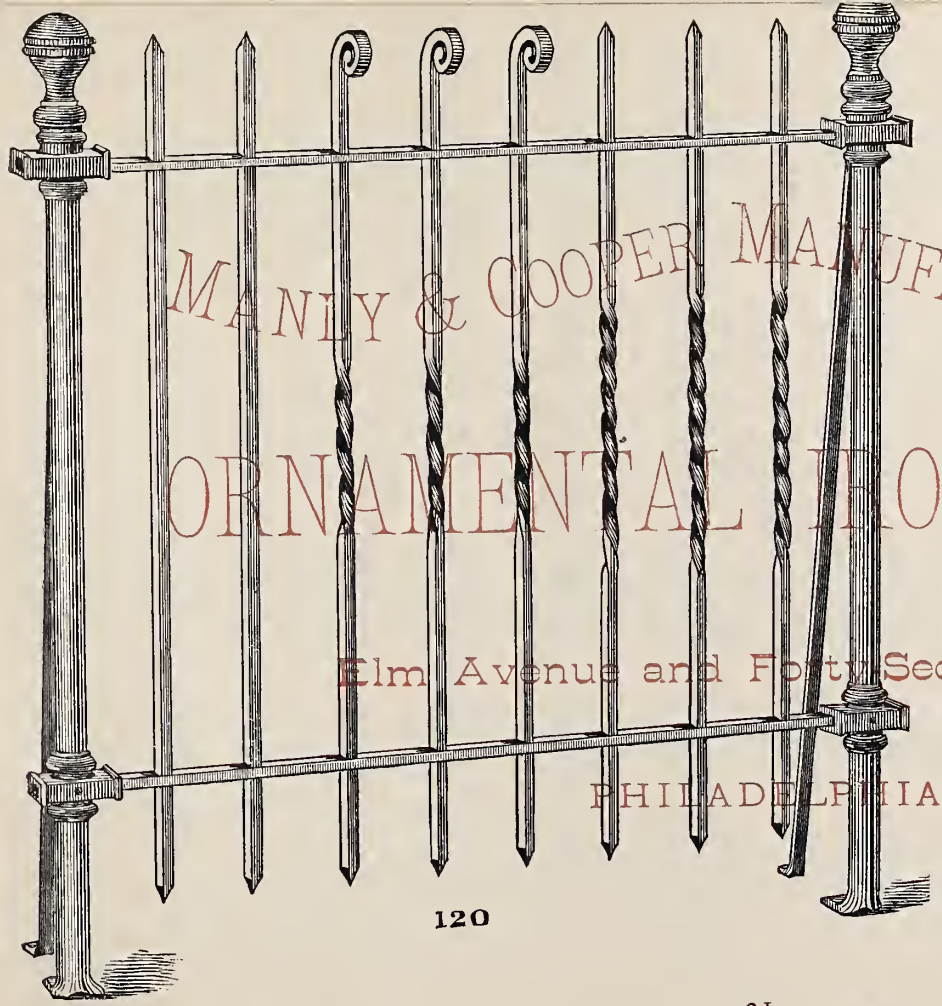
3d.—Twisted rod with pointed tops.

No. 120.—Pipe Post, used in connection with these and other light railings, is preferred by some for the purpose of relieving the monotony of the continuous line of the railing. The top can be varied to suit the taste of customers.

GRILLES.

No. 116.—Heavy scroll Grilles adjusted to swing in a frame, were made for a pair of Gothic doors in Cuba.

WE MAKE A SPECIALTY OF WORK OF THIS CHARACTER.



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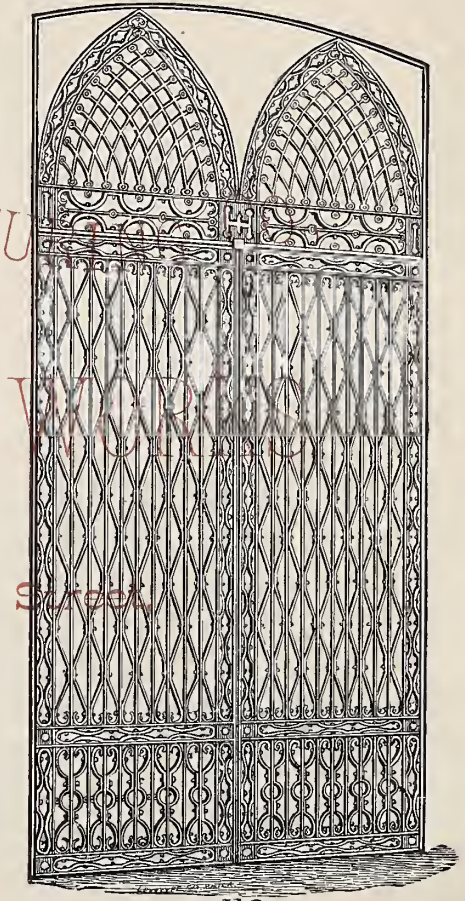
MANLY & COOPER MANUFACTU
ORNAMENTAL IRON WORKS
Elm Avenue and Forty-Second Street,
PHILADELPHIA.



116

WROUGHT IRON BRACE AND BASE.

Used when Railings stand on the ground; it is far superior to a Cast Iron Base, as it cannot be broken and frost does not affect it.

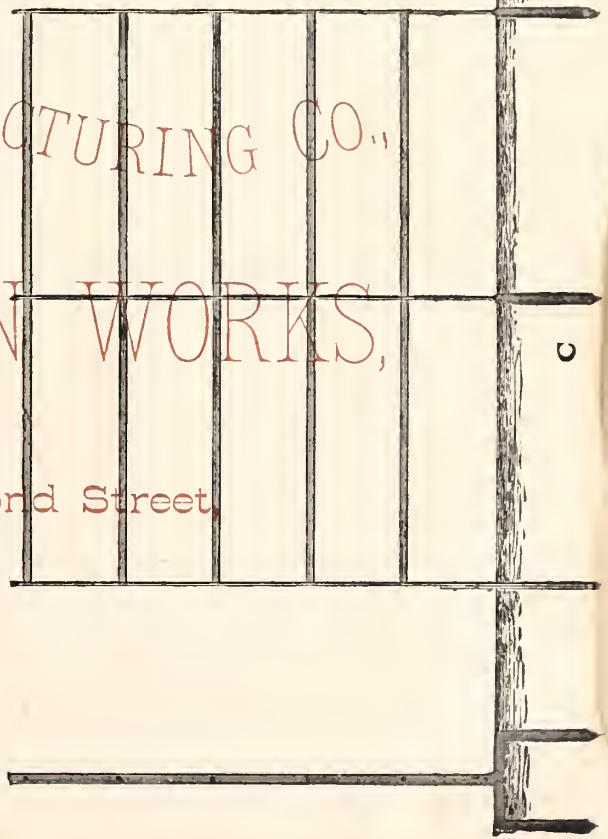
HURDLE OR LAWN FENCES.

Design B.—Is constructed ENTIRELY of $1\frac{3}{4}$ inch Steel Channels; height, 4 feet from ground; posts every 5 feet. This Railing, for enclosing country-places and farms, has no equal, and is superseding ALL styles heretofore made. It is VERY strong, handsome, and durable; is easily set and changed, and will last a lifetime.

B Channel shows one-third size.

Design C.—English Hurdle Fence. It is constructed of O Horizontal bars, with flat Verticals and Posts. Height, 4 feet.

Other designs furnished if desired. *B Railing is the best and cheapest made.*



MANLY & COOPER MANUFACTURING CO.,

ORNAMENTAL IRON WORKS,

Elm Avenue and Forty-Second Street,

PHILADELPHIA.

One-third Size.

Bank, Jail, or School House Railings.

STANDARD HEIGHT, 5 FEET.

These Railings are ALL Wrought Iron (except the ornaments) and can be made of any sized Iron. Horizontal bars of flats or channels. Strength can be gained by using square Iron instead of round. See page 24.

The sections show the manner of securing the Railing to stone coping, and to Base and Brace-post where there is no coping.

SETTEES.

Frames of Wrought Iron in ONE Piece.

Slats of Oak or Ash as may be desired. Properly stiffened in centre. They are well put together with bolts, so that the seats can be replaced at any time without difficulty.

We are supplying these in large quantities to Parks and Public Institutions. Also for lawns, etc.

MANLEY & COOPER MANUFACTURING CO.
ORNAMENTAL IRON WORKS,
Elm Avenue and Forty-Second Street,
PHILADELPHIA.

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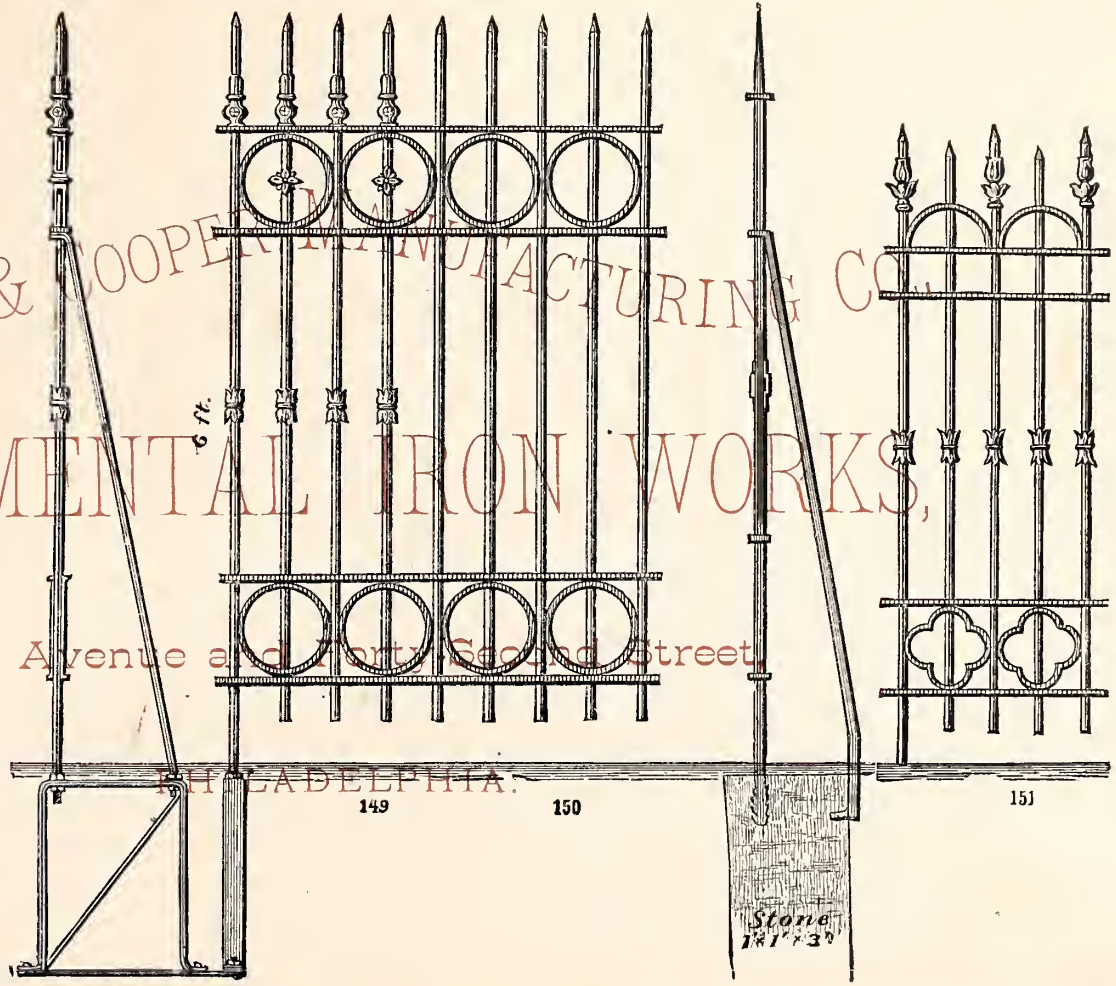


149 150 151

BANK, JAIL, AND SCHOOL HOUSE RAILINGS.

All Railings are measured from the ground. Standard height, 4 feet 6 inches.

These railings can be made any height, and of Round, Square, Flat, or Star Iron.

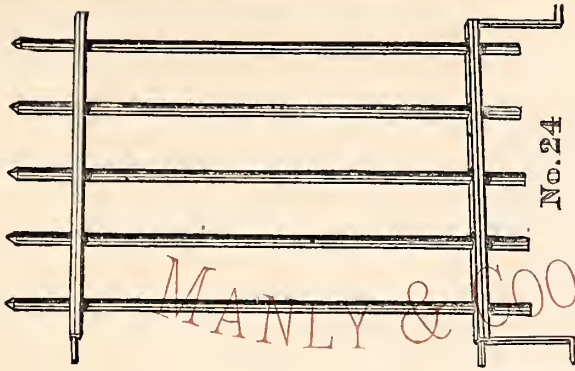
Quotations on pages 23 and 24 are for round verticals, but much strength can be gained by using Square Iron. Horizontal Bars will be made of suitable Flat, Channel, or Angle Iron, as may be preferred.

Cast Iron Post No. 25, 5 inches square, 7½ feet long. (For same pattern 8 inches square, see page 14.)

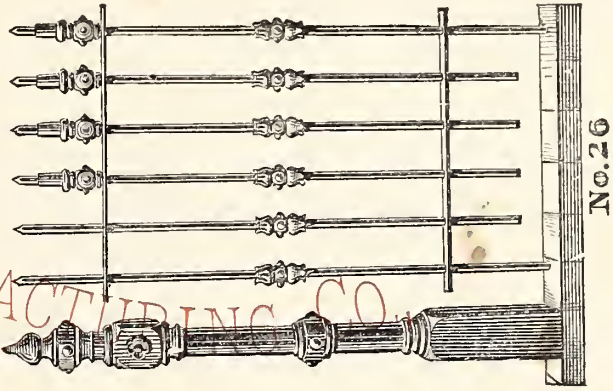
" " No. 26, 4 " " is the same as No. 11 on page 13.

Our quotations include all Bases on pages 22 and 23, Brace-posts, Bolts, etc., carefully fitted for the purpose. They are made very heavy so as to insure great strength.

—SEE PRICE LIST.—



No. 24



No. 26

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ORNAMENTAL IRON WORKS,

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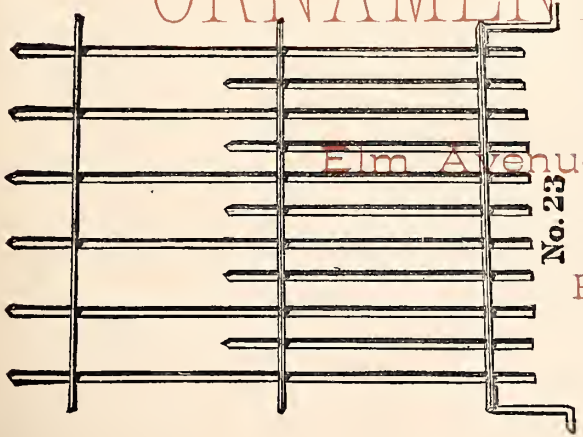
PHILADELPHIA.



No. 23

No. 25

WROUGHT IRON RAILINGS.

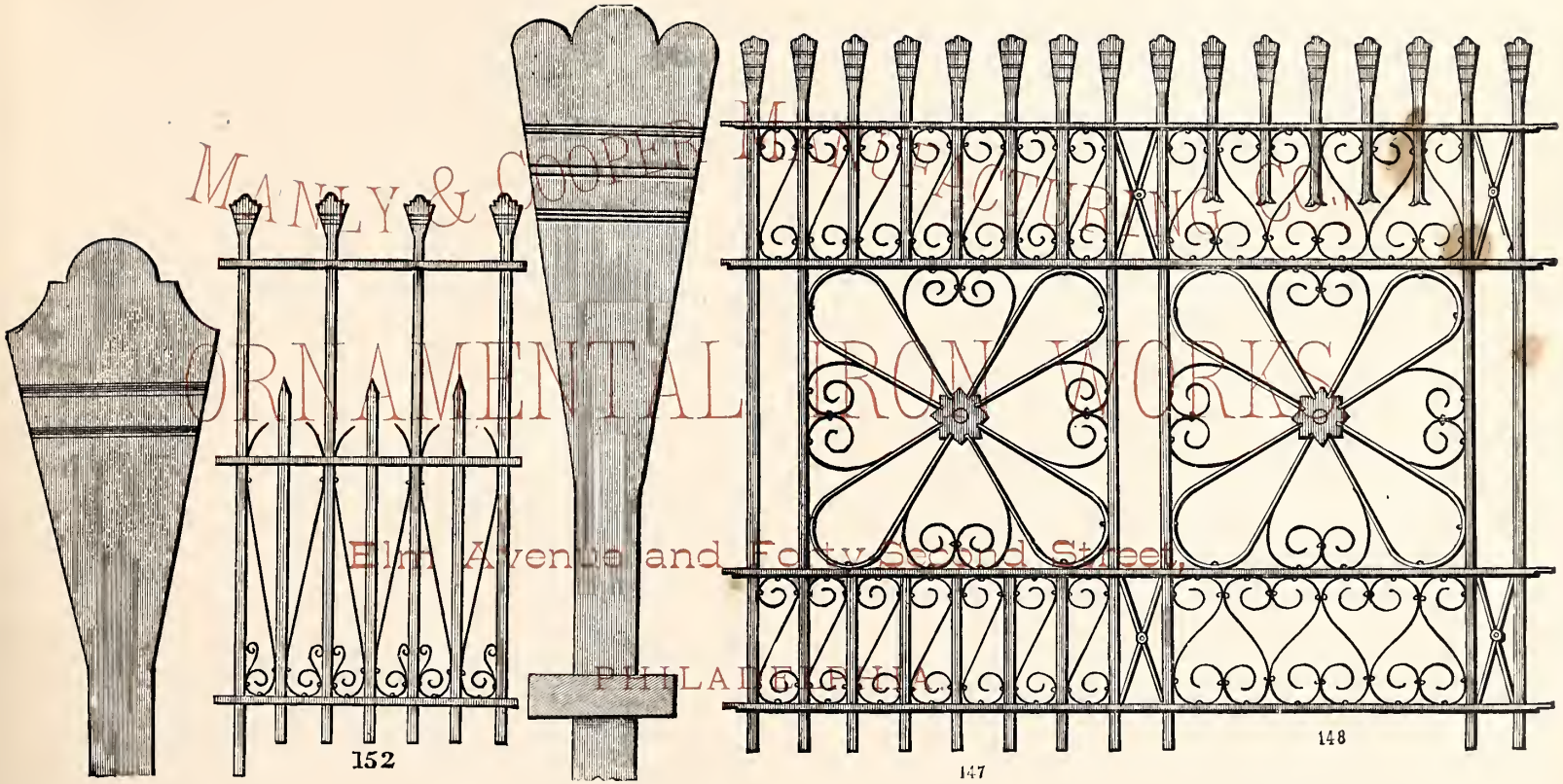
FOR PUBLIC OR PRIVATE INSTITUTIONS, BANKS, &c.

These designs are for Square Iron Pickets and Heavy Horizontals.

The Forged Pickets are of entirely new design.

They can be made of any height or strength.

MANLY & COOPER
ORNAMENTAL IRON WORKS
MANUFACTURING CO.
Elm Avenue and Forty-Second Street,
PHILADELPHIA



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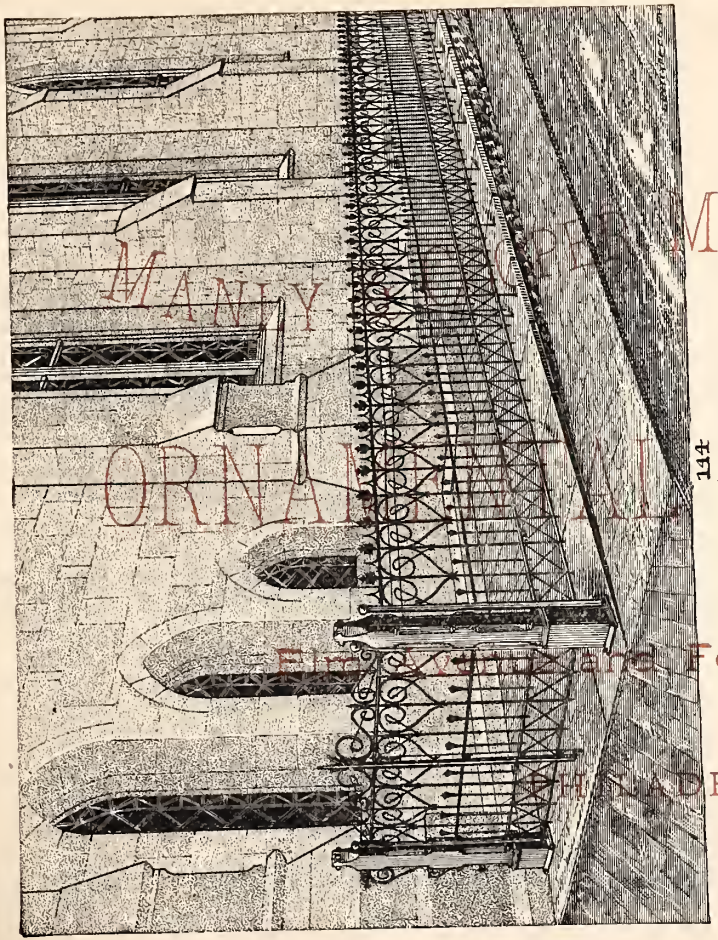
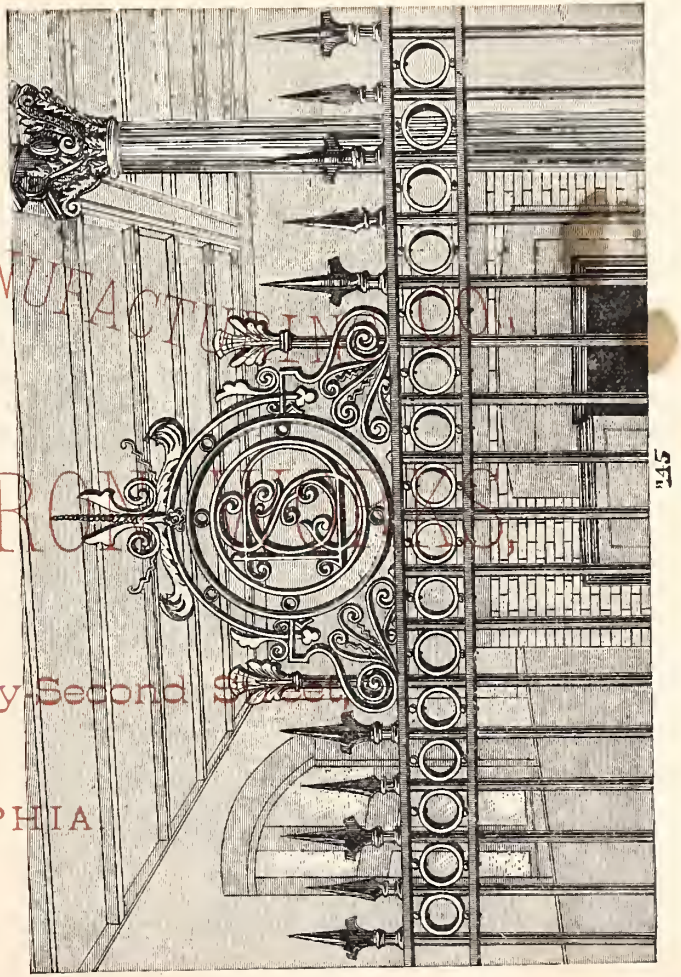
No. 144.—CHURCH RAILING and Gates in place. The railing is all Wrought Iron, 4 feet high from stone coping. Gates, 6 feet opening.

Cast Iron Posts No. 64. (See page 12.)

No. 145.—Heavy Guard Rails in front of BANK VAULTS, from photograph of work in place. The monogram and leaves are wrought and forged.



114



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MANLY ORNAMENTAL IRON MANUFACTURING CO.
ORNAMENTAL IRON WORK
First Avenue and Forty-Second Street
PHILADELPHIA

Designs 1, 2, 3, and 4 represent Cuts of Forged Guards and Railings, such as are used in Banks, Jails, and Public Institutions.

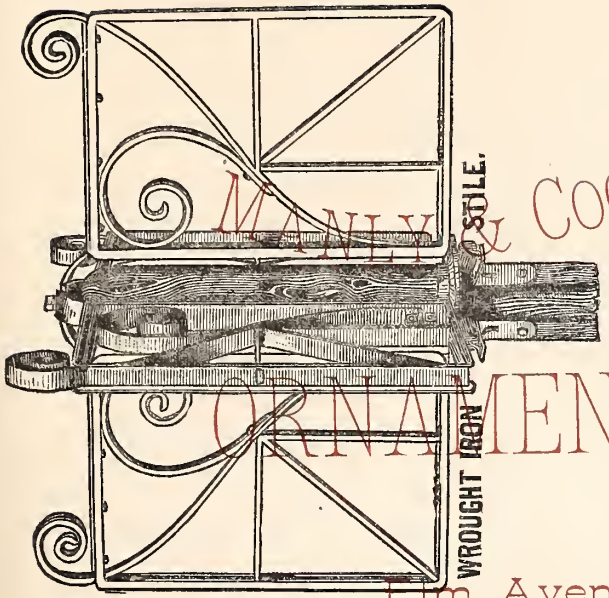
THEY CAN BE MADE **ANY** HEIGHT OR WEIGHT DESIRED.

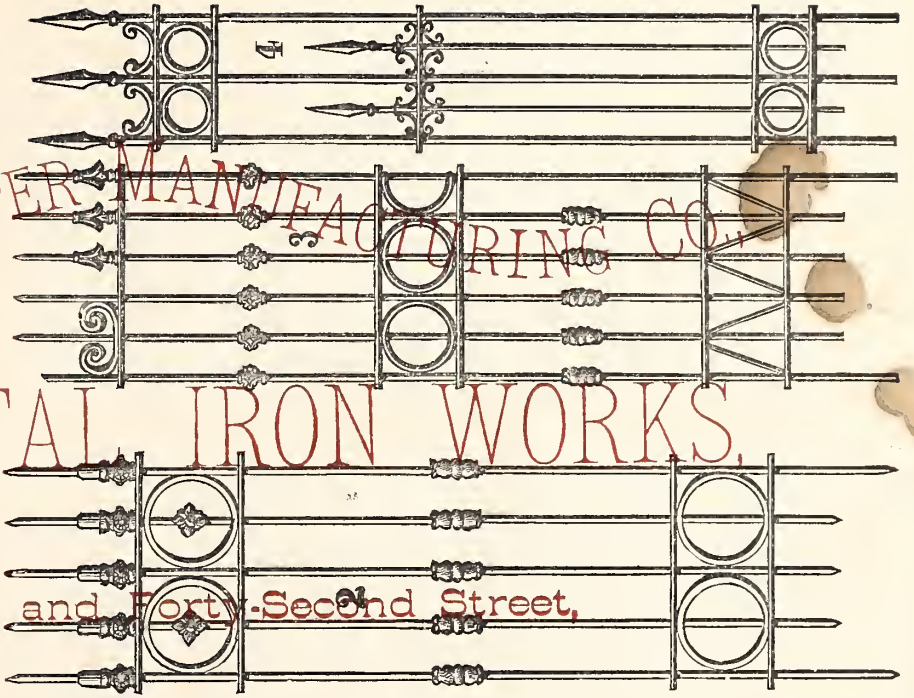
IN SOLICITING ESTIMATES FOR GUARDS, GIVE SIZE OF OPENINGS, AND STATE WHETHER FRAMES ARE WOOD, STONE, OR IRON.

TURNSTILE, ALL WROUGHT IRON.

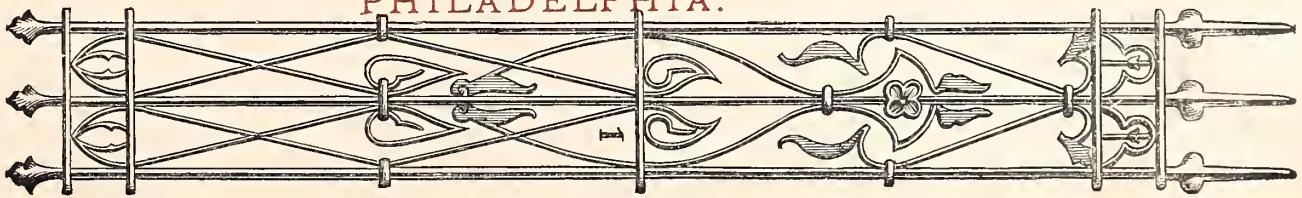
DIFFERENT DESIGNS, WITH PRICES, FURNISHED UPON APPLICATION.

JAIL CELLS AND CAGES.





MANLY & COOPER MANUFACTURING CO.
ORNAMENTAL IRON WORKS.
Elm Avenue and Forty-Second Street,
PHILADELPHIA.



IRON SHUTTERS.

Constructed with the most improved fastenings, of any desired size or thickness of Iron. We also furnish hinges or shutter blocks to lay in wall.

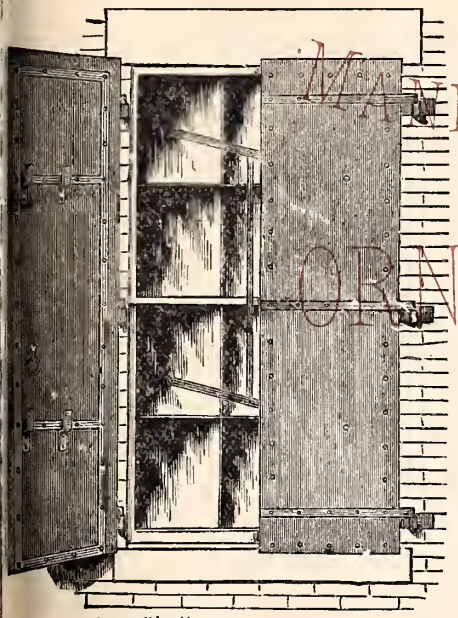
☞ We have SPECIAL facilities for making Shutters, Doors, and Hinges, and can give low prices. Send for estimates.

VAULT DOORS.

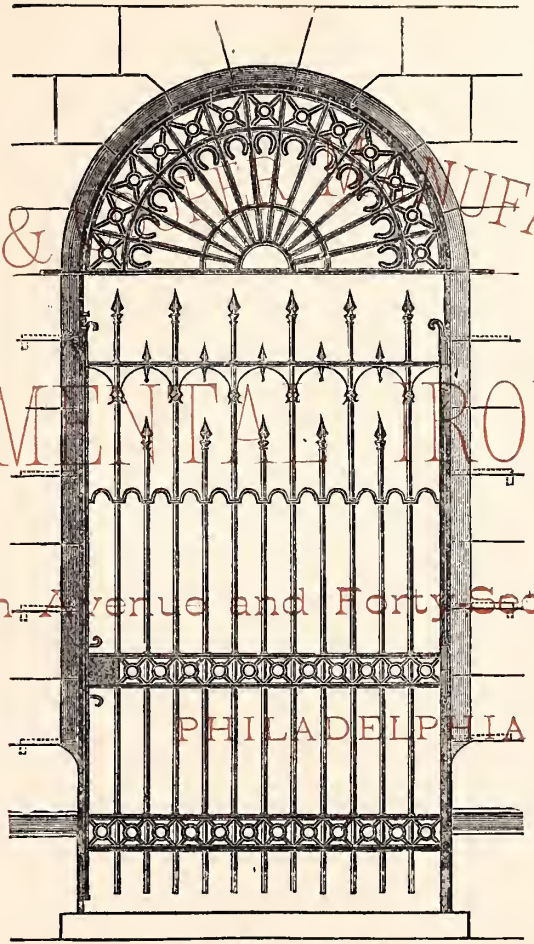
Estimates and designs promptly furnished on Vault Doors for Cemeteries, Jails, Banks, etc. etc. etc.

RAILING No. 43.

The Railing is all Forged and Planed work welded together, and is the handsomest ALL Wrought Railing ever erected in this city.



Iron Shutters.



VAULT DOORS.

MANLY & [illegible] MANUFACTURING CO.
ORNAMENTAL IRON WORKS,
Elm Avenue and Forty-Second Street,
PHILADELPHIA.

FIRE ESCAPES.

ALL WROUGHT IRON.

Design D.—The treads and platforms of this Escape are constructed of Steel channels; platform frames of Angle Iron. The treads and platforms are covered with wood (BOLTED ON SO THAT IT CAN BE READILY REPLACED). Hand rails are supplied on both sides, and a rigid job is guaranteed if the work be properly set, and can be used by the most timid as readily and safely as ordinary stairs in a building.

This Escape is, without exception, the strongest and cheapest that has as yet been offered to the public.

IF PREFERRED THEY CAN BE MADE ENTIRELY OF METAL.

Design E.—Shows Fire Escape with wire frame; stairs are supplied with Hand rail.

" F.—Very Ornamenal Fire Escapes (erected on S. S. White's building, Philadelphia); Frame work, Railings, and Hand rail of pipe; platforms and enclosures of crimped wire.

Special Designs furnished upon receiving instructions regarding style of buildings, &c. &c. &c.

D

E

F

MANLY & COOPER MANUFACTURING CO.
ORNAMENTAL IRON WORKS,
Erie Avenue and Forty-Second Street,
PHILADELPHIA

CEMETERY ENCLOSURES.

These designs show some of the favorite Ornaments, Gates, etc, now in use, as well as the devices for attaching to stone Posts.

These goods have become standard articles and orders can generally be filled from stock. Tulip, Scoop, and Box Eyes are leaded into the stone posts, and each pipe is cut $\frac{1}{2}$ inch less than the distance between posts. Where the pipe runs into the Posts, sockets and collars are used to cover the holes. When the pipes on the front of a lot are to be lifted out, the Tulip and Box Eyes must be made in halves and bolted together. In the case of Scoop Eyes the pipe must be supplied with a pin to suit the hole in the Eye.

Brass Name Plates, Galvanized Crosses and Chains, Dowel Pins, and all cemetery supplies promptly furnished.

—SEE PRICE LIST.—

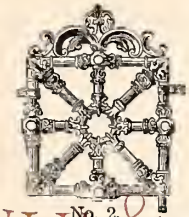
Builders of ALL the Wrought Iron Bridge Hand Railing in Philadelphia since 1875.

MANLY & COOPER MANUFACTURING CO.
ORNAMENTAL IRON WORKS
Elm Avenue and City Second Street
PHILADELPHIA

For 2 inch, 1½ inch, and 1¼ inch Pipe.

No. 25.

Cast Iron Gate
No. 11.



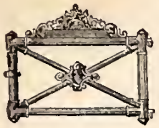
No. 2.

No. 1.

Tulip Eye.

Box Eye.

Scoop Eye.

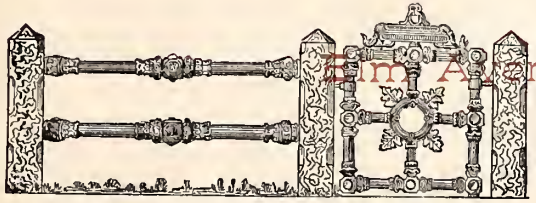


No. 20.

Harp Panel Railing.

Collar.

Socket.



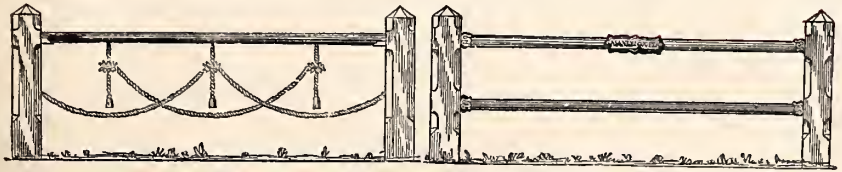
No. 16.

Half End.

¼ End.

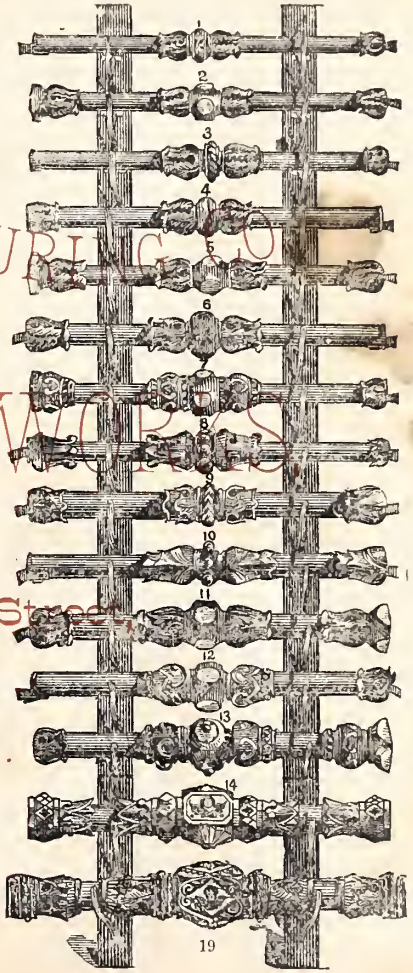
End Ornament.

Centre Ornament.



Showing Double Chain and Tassel.

Showing Double Rail, Name Plate, and Tulip Eye.



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